This catalog is effective for the 2004-2005 academic year. This catalog includes all policies, procedures, and program and course descriptions in effect at the time of publication. USF reserves the right to repeal, change, or modify the policies, procedures and program and course descriptions at any time.

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

Archives online:
2003-2004 PDF Version
2001-2003 Catalog
2001-2003 PDF Version
2001-2003 Updates
1999-2001 Catalog
1999-2001 PDF Version
About USF / Tampa

Welcome! The Tampa area has a lot to offer!
Click on one of the links below for more information!

http://www.usf.edu/overview.html

http://www.usf.edu/viewbook/

For more information and visual tours of the Tampa Bay region, see http://floridainfo.com/
Welcome to Graduate Studies @ USF

A Message from the President:
Thank you for your interest in graduate education at the University of South Florida.

USF is a top-tier, metropolitan research university, distinguished by our excellent research and graduate education and our location in a major urban region that is among the nation’s most diverse and encompasses some of the world’s most prized marine and land environments. USF programs that are recognized as being among the nation’s best include Marine Science, Psychology, Accounting, Applied Anthropology and Biochemistry. Strong interdisciplinary programs put USF on the leading edge of research and graduate education in a number of areas. For example, collaboration of researchers throughout the institution has made USF a leader in the neuroscience of aging. USF’s interdisciplinary doctoral program in Aging Studies was the first in the country. The doctoral program in Cancer Biology joins USF research capacity with the strengths of the nationally recognized H. Lee Moffitt Cancer Center and Research Institute.

In addition to doctoral programs, USF offers many opportunities for postgraduate study through our many Master’s and Certificate programs, many of which are designed to prepare graduates to make immediate contributions to the economic, cultural and social vitality of communities. Our commitment to diversity, discovery and application of knowledge that is relevant to development of urban communities has resulted in USF being frequently cited as the model for an “engaged university.”

The opportunities for graduate education at USF are vast. In many areas, USF offers programs that are unsurpassed in their capacity to prepare you to make your best contribution to a challenging world. I invite you to inquire further about USF programs of interest to you.

Sincerely yours,

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

A Message from the Dean:
I would like to personally thank you for expressing an interest in Graduate Studies at the University of South Florida. Your selection of a graduate school will affect the rest of your professional life, and we at the University of South Florida believe that you would do very well to consider the University of South Florida. We are a metropolitan based, national research university that offers excellent faculty, top quality programs and outstanding research facilities combined with a strong desire and commitment to educate future generations of teachers, scholars, researchers, and professional leaders.

In our continuous efforts to meet the needs of the communities we serve, we offer full degree programs both at our Tampa campus and at our regional campuses in St. Petersburg, Sarasota, Lakeland as well as at other sites in the greater Tampa Bay area. We work to provide not only for the needs of our fulltime students, but also for busy adults whose work schedules require flexible day, evening, and weekend classes. The University of South Florida offers over 100 master’s degrees and more than 30 doctoral programs. Our tuition, among the lowest in the country, provides affordability; plus we also offer a number of financial aid and work-study options.

Please accept my personal invitation to learn more about our graduate programs by contacting the Office of Graduate Studies.

Kelli McCormack Brown, Interim Dean
Graduate Studies, University of South Florida – http://www.grad.usf.edu
Updates in 2004-2005 Catalog

This catalog includes all policies, procedures, and program and course descriptions in effect at the time of publication. USF reserves the right to repeal, change, or modify the policies, procedures and program and course descriptions at any time.

Corrections/Updates:
A running log of corrections and needed changes is maintained in the Office of Graduate Studies for inclusion in the next Graduate Catalog.

If you see an error or know of a necessary revision, please contact the Coordinator at Chines-cobb@grad.usf.edu for information on making the update. Thank you.
## Graduate Studies Contact Information

<table>
<thead>
<tr>
<th>Graduate Studies</th>
<th>Phone Num.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Main Line</td>
<td>(813) 974-2846</td>
</tr>
<tr>
<td>Admissions</td>
<td>(813) 974-8800</td>
</tr>
<tr>
<td>Dr. Kelli McCormack Brown, Interim Dean</td>
<td>(813) 974-2846</td>
</tr>
<tr>
<td>Theresa Singletary, Administrative Services</td>
<td>(813) 974-7359</td>
</tr>
<tr>
<td>Francisco Vera, Director of Admissions</td>
<td>(813) 974-2846</td>
</tr>
<tr>
<td>Mildred Howard, Coordinator of Accounting</td>
<td>(813) 974-8356</td>
</tr>
<tr>
<td>Jean Cole-Spencer, Accountant</td>
<td>(813) 396-9010</td>
</tr>
<tr>
<td>Carol Hines-Cobb, Coordinator, Academic Services</td>
<td>(813) 974-4239</td>
</tr>
<tr>
<td>Janet Giles, Manuscript Editor</td>
<td>(813) 974-5220</td>
</tr>
<tr>
<td>Maggie Hogarth, ETD Technical Editor</td>
<td>(813) 974-7161</td>
</tr>
<tr>
<td>Rod Hale, Multi-cultural Graduate Programs Coordinator</td>
<td>(813) 974-3412</td>
</tr>
<tr>
<td>Joseph Butts, Senior Systems Administrator</td>
<td>(813) 974-3586</td>
</tr>
<tr>
<td>Nicholas R. Hage, Assistant Systems Administrator</td>
<td>(813) 974-3226</td>
</tr>
<tr>
<td>Gloryvee Cordero, Computer Support Analyst</td>
<td>(813) 974-7727</td>
</tr>
<tr>
<td>Malcolm Randolph, Marketing &amp; Recruiting</td>
<td>(813) 974-7257</td>
</tr>
<tr>
<td>Terri Collins, Coordinator Marketing &amp; Recruiting</td>
<td>(813) 974-7796</td>
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</table>

## Campus Contact Information

<table>
<thead>
<tr>
<th>Campus Contact Information</th>
<th>Phone Num.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Campus Recreation Center</td>
<td>(813) 974-3177</td>
</tr>
<tr>
<td>Campus Residence Halls</td>
<td>(813) 974-4310</td>
</tr>
<tr>
<td>Chamber of Commerce</td>
<td>(813) 228-7777</td>
</tr>
<tr>
<td>Child Care Resources and Referral</td>
<td>(813) 276-5753</td>
</tr>
<tr>
<td>Disabled Student Services</td>
<td>(813) 974-4309</td>
</tr>
<tr>
<td>Health Services</td>
<td>(813) 974-2331</td>
</tr>
<tr>
<td>International Admissions</td>
<td>(813) 974-5102</td>
</tr>
<tr>
<td>International Student &amp; Scholar Services</td>
<td>(813) 974-5102</td>
</tr>
<tr>
<td>Lakeland</td>
<td>(863) 667-7000</td>
</tr>
<tr>
<td>Library Resources-Information</td>
<td>(813) 974-2729</td>
</tr>
<tr>
<td>Marshall Student Center</td>
<td>(813) 974-3180</td>
</tr>
<tr>
<td>Off-campus</td>
<td>(813) 974-2401</td>
</tr>
<tr>
<td>Office of Financial Aid</td>
<td>(813) 974-4700</td>
</tr>
<tr>
<td>Office of Student Employment</td>
<td>(813) 974-2171</td>
</tr>
<tr>
<td>Pasco Initiative (Educational Outreach)</td>
<td>(813) 974-2996</td>
</tr>
<tr>
<td>Registration and Records</td>
<td>(813) 974-2000</td>
</tr>
<tr>
<td>Sarasota</td>
<td>(941) 359-4269</td>
</tr>
<tr>
<td>St. Petersburg</td>
<td>(727) 553-1142</td>
</tr>
<tr>
<td>Student Affairs</td>
<td>(813) 974-2151</td>
</tr>
<tr>
<td>Tampa</td>
<td>(813) 974-2011</td>
</tr>
<tr>
<td>Veterans Services</td>
<td>(813) 974-2291</td>
</tr>
</tbody>
</table>

Revised - November 25, 2003
### Academic Calendar
#### August 2004 - July 2005

Please see the Registrar’s Calendar at [http://www.registrar.usf.edu/display_link.php?page_key2=iV0rXwaVehr47Dmr8lEcW1TMYNQ&link_type=Forms&link=%2Fforms%2FCalendar2003-08-06_8_55_34.pdf](http://www.registrar.usf.edu/display_link.php?page_key2=iV0rXwaVehr47Dmr8lEcW1TMYNQ&link_type=Forms&link=%2Fforms%2FCalendar2003-08-06_8_55_34.pdf) for term begin/end dates, registration dates, graduation application deadlines, etc.

<table>
<thead>
<tr>
<th>Date</th>
<th>Event</th>
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<tbody>
<tr>
<td>August 6 - Friday</td>
<td>Summer B, last day of classes</td>
</tr>
<tr>
<td>August 7 - Saturday</td>
<td>Summer Commencement, Tampa</td>
</tr>
<tr>
<td>August 23 - Monday</td>
<td>Fall, first day of classes</td>
</tr>
<tr>
<td>September 6 - Monday</td>
<td>Labor Day</td>
</tr>
<tr>
<td>September 16 - Thursday</td>
<td>Rosh Hashanah</td>
</tr>
<tr>
<td>September 25 - Saturday</td>
<td>Yom Kippur</td>
</tr>
<tr>
<td>November 11 - Thursday</td>
<td>Veteran's Day Holiday</td>
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<tr>
<td>November 25 &amp; 26</td>
<td>Thanksgiving Holiday</td>
</tr>
<tr>
<td>December 3 - Friday</td>
<td>Fall, last day of classes</td>
</tr>
<tr>
<td>December 4 - 10</td>
<td>Final Exam Week</td>
</tr>
<tr>
<td>December 11 - Saturday</td>
<td>Fall, Tampa Commencement</td>
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<tr>
<td>December 24 - Friday</td>
<td>Christmas Holiday</td>
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<tr>
<td>December 31 - Friday</td>
<td>New Year’s Holiday</td>
</tr>
<tr>
<td>January 10 - Monday</td>
<td>Spring, first day of classes</td>
</tr>
<tr>
<td>January 17 - Monday</td>
<td>Martin Luther King, Jr.</td>
</tr>
<tr>
<td>March 14 - 19</td>
<td>USF Spring Break</td>
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<tr>
<td>April 29 - Friday</td>
<td>Spring, last day of classes</td>
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<tr>
<td>April 30 - May 6</td>
<td>Spring Final Exams</td>
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<tr>
<td>May 7 - Saturday</td>
<td>Spring Commencement, Tampa</td>
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<tr>
<td>May 16 - Monday</td>
<td>Summer A &amp; C, first day of classes</td>
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<tr>
<td>May 30 - Monday</td>
<td>Memorial Day</td>
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<tr>
<td>June 24 - Friday</td>
<td>Summer A, last day of classes</td>
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<tr>
<td>July 4 - Monday</td>
<td>Independence Day Holiday</td>
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<tr>
<td>July 5 - Tuesday</td>
<td>Summer B, first day of classes</td>
</tr>
<tr>
<td>July 22 - Friday</td>
<td>Summer C, last day of classes</td>
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</tbody>
</table>

2005
USF Mission, Goals, Values, Vision, Accreditation

USF Strategic Plan: http://www.acad.usf.edu/strategicplan/index.html

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

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

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

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

Values
The University of South Florida values:

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

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

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

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

University of South Florida
Office of Graduate Admissions
4202 E. Flower Ave, FAO174 (loc FAO126)
Tampa, Fl 33620

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

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

Director of Graduate Admissions: Francisco Vera
Admissions Officers: Nancy Moenning, Deise Cedeño, Mark Freeman, David Shocklee

University Admissions Criteria and Policies
International Applicants
Application Procedures
Application Checklist
Final Admission Criteria
Provisional Admission Criteria
Exception Admission Criteria
Conditional Admission Criteria
Deferment of Admission Request
Update of Admission Request
Denial of Admission/Appeal for Reconsideration
Criteria
Reinstatement of Admission
Change of Program Request
Student with Disabilities Policy
Medical Requirements for Registration

In order to be considered for admission, first-time or transferring graduate applicants must:

A. Have a bachelor’s degree or equivalent from a regionally accredited university, and

B. Have taken the Graduate Record Examination (GRE)* / Graduate Management Admission Test (GMAT) or an equivalent measure approved by the State University System (SUS) within five years preceding application, and

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

C. Meet at least one of the following criteria:

1. Have earned a graduate degree from a regionally accredited institution.

2. Have earned a "B" (3.0 on a 4.0 scale) average or better in all work attempted while registered as an upper division student working for a baccalaureate degree.

3. Have a total verbal plus quantitative GRE General Test score of 1000 or higher, or GMAT score of 500, or an equivalent measure approved by the SUS, taken within five years preceding application.
International Applicants
Students who are not United States citizens or who have not already been granted Permanent Resident Alien status (hold a Green Card) must apply through the Office of International Admissions (http://web.usf.edu/iac/admissions/). All requirements and application materials are available at this website.

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

Priority is given to those applications that are received before the application deadline and are complete when submitted. Complete applications received after the deadline date will be processed for the next available semester. The Office of Graduate Admissions considers domestic applications complete if they include:
(1) the appropriate application fee
(2) two official transcripts of at least 6 semesters of completed undergraduate work
(3) GRE/GMAT test scores, as applicable

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

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

Application Fee
Transcripts
Test Scores
Conduct Clearance Policy (Legal Disclosure Statement)
Residency Policy
Application Documents Access/Forward/Return Policy

Additional Requirements of Programs (If Applicable)

Application Fee
All applicants are required to submit an application fee of $30.00 for EACH graduate program. Please attach a check or money order drawn on a US bank in US currency, made payable to USF. If you attended USF as a former degree seeking student or non-degree seeking student then you MUST SUBMIT the application fee. Any application received without the required fee will NOT be processed, and will be destroyed two months after being received.

ALL APPLICATION FEES SUBMITTED ARE NON-REFUNDABLE.

Transcripts
Two (2) official transcripts from all institutions of higher learning where the applicant has earned a degree are required, but applicants may provide unofficial copies of transcripts to expedite the processing of their applications. Any admissions granted using unofficial transcripts will not be finalized until official transcripts are received in a sealed envelope from the Office of the Registrar where they attended. All transcripts must be in English; it is the applicant’s responsibility to have transcripts translated/evaluated (if necessary) before submitting them as part of their graduate application packet. If you are applying while still completing an undergraduate degree, you must submit transcripts of at least six (6) semesters of completed undergraduate work. Final transcripts showing the award of a bachelor’s degree will be required if an applicant is admitted and enrolls. Do not submit USF transcripts if you have attended as a USF degree-seeking student.

Test Scores
All applicants to programs requiring the GRE* must submit GRE test scores earned within five (5) years of the desired term of entry. Applicants to programs in the College of Business (excluding Economics) should submit GMAT scores earned within five (5) years of the desired term of entry. Official scores must be submitted to USF directly from the Educational Testing Service, but applicants may provide unofficial copies of their test scores to expedite the processing of their applications. Any admission granted using unofficial scores will not be finalized until official scores from ETS are received. The institution code for USF is 5828 and applies to
all tests administered by ETS.

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 score of 213 on the computer-based test, or 550 on the paper-based test are required. Applications submitted with TOEFL scores that do not meet the minimum requirements will be denied with no exceptions.

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

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

After the student has completed their first semester of study they may seek to have their residency reconsidered. They may submit a Request for Reclassification Form with the Office of the Registrar. This must be filed by the 5th day of classes for the term being requested. The following are acceptable, non-conclusive evidence for establishing legal Florida residence:

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

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

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

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

The Office of Graduate Admissions graduate application files may be copied and released to USF staff conducting legitimate University business. No graduate application files (originals or copies) are to be taken off campus for review or processing.

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

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

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

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

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

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

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

Denial of Admission/Appeal for Reconsideration Criteria
Applicants denied admission will be given timely notice by email or in writing. Denied applicants who meet the minimum system wide standards (3.0 GPA or 1000 GRE) may write the Graduate Program Director of the program to which they applied within 30 days of the date of denial to request reconsideration. The request should present additional evidence of potential for academic success at USF and contain reasons why reconsideration is warranted. Applicants denied admission to a degree-seeking program are eligible to enroll as special (non-degree seeking) students. Non-degree seeking applications must be submitted to the Office of the Registrar.

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

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

**Change of Program Request**

Change of Program Request will NOT be considered for graduate students in their first semester of study. Only continuing graduate student enrolled for study in a particular program who wishes to change to another program at the same or lower level must complete the Change of Program Request Form #USF 2085. It is up to the discretion of the student’s original program to determine if a Change of Program is appropriate and will be granted. Students may obtain the form from Graduate Studies in FAO 126. This form must be signed both by the current program and the new program, after which it must be submitted to Graduate Studies for approval. If approved by the Graduate Studies, the change of program form is then sent to the Registrar for processing.

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

**Students with Disabilities Policy**

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

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

**Medical Requirements for Registration**

Student Health Services is charged with the responsibility of evaluating and maintaining medical requirements for registration for all University of South Florida students.

According to Florida Administrative Code Rule 6C-6.001(4) "Each student accepted for admissions shall, prior to registration, submit on a form provided by the institution a medical history signed by the student." As a prerequisite to matriculation or registration, the State University System of Florida requires all students born after 1956 to present documented proof of immunity to **MEASLES** (http://shsweb.shs.usf.edu/RegMedReqs.html#proof) and **RUBELLA** (German Measles - http://shsweb.shs.usf.edu/RegMedReqs.html#Rubella).

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

In order to register, this form must be completed, signed, and returned to:

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

STUDENT DEFINITIONS

Degree Seeking Student
Students who have been accepted into a degree program.

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

Non-Degree Seeking Student
Students who have not been accepted into a degree or Graduate Certificate Program. Non-Degree Seeking students may enroll and enter classes on a space available basis by obtaining appropriate approval from the degree-granting college or academic unit in which the courses are offered. Non-Degree Seeking students must meet all prerequisites for courses in which they wish to enroll. Certain classes are available only to degree seeking students and may not be available for Non-Degree Seeking students. Should a student be accepted into a graduate degree program, no more than 12 hours of USF credit earned as a Non-Degree Seeking student may be applied to satisfy graduate degree requirements. Any application of such credit must be approved by the degree-granting college and must be appropriate to the program. Prior to completing 12 hours in a specific degree program it is strongly recommended that a Non-Degree Seeking Student apply for admission and be accepted to the degree program to continue taking courses in the program. Programs may have additional requirements, so check with the program of interest for more information.

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

REGISTRATION INFORMATION
Phone: 813-974-2000
TTY: 813-974-4488
E-mail: regquest@admin.usf.edu
Website:
http://www.rmit.usf.edu/enroll/regist/regist.htm

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

Registration Instructions: To register for classes, students must login to OASIS – http://usfonline.admin.usf.edu/. Per Florida Statutes, students must submit a Medical History Form required for all students, regardless of age and degree seeking status) available at the website: http://shsweb.shs.usf.edu. Questions may be directed to Student Health Services by phone at 813-974-4056. Additional information on all registration requirements and procedures may be found in the Schedule of Classes at (http://usfweb.usf.edu/ssearch/search.htm) or at the Registrar’s office website at: http://www.registrar.usf.edu/index.php

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

**Administrative Holds**

A student may be placed on administrative hold by failure to meet obligations to the University. When a student is on administrative hold, he/she may not be allowed to register, receive a diploma, or receive a transcript. Settlement of financial accounts must be made at the **University Cashier’s Office**. Each student placed on administrative hold should determine from the Office of the Registrar which office placed him/her in this status and clear the obligation with that respective office.

**ACADEMIC TERM INFORMATION**

**Semester System**

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

**Academic Load**

<table>
<thead>
<tr>
<th>Semester</th>
<th>Academic Purposes</th>
<th>Financial Aid</th>
<th>Veteran’s Benefits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fall / Spring</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Full -Time</td>
<td>9 or more hours*</td>
<td>9 or more hours</td>
<td>9 or more hours</td>
</tr>
<tr>
<td>3/4 Time</td>
<td>-----</td>
<td>-------</td>
<td>7 to 8 hours</td>
</tr>
<tr>
<td>1/2 Time</td>
<td>-----</td>
<td>5 to 8 hours</td>
<td>5 to 6 hours</td>
</tr>
<tr>
<td>Less than 1/2</td>
<td>-----</td>
<td>1 to 4 hours (1/4 time)</td>
<td>1 to 4 hours</td>
</tr>
<tr>
<td>Time</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

*The normal graduate load in the fall and spring terms is 9-12 hours per semester.

**Summer Semester**

<table>
<thead>
<tr>
<th>Academic Purposes</th>
<th>Financial Aid</th>
<th>Veteran’s Benefits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Full -Time</td>
<td>6 or more hours*</td>
<td>9 or more hours</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>3/4 Time</td>
<td>-----</td>
<td>-----</td>
</tr>
<tr>
<td>1/2 Time</td>
<td>-----</td>
<td>5 to 8 hours</td>
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<tr>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Less than 1/2 Time</td>
<td>-----</td>
<td>1 to 4 hours</td>
</tr>
</tbody>
</table>

*Students receiving Veterans’ Administration benefits should confirm their Summer Term enrollment with the Office of Veterans’ Services or Veterans’ Coordinator. Summer includes sessions A, B, and C.

**Student Academic Standing**

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

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

**STUDENT ACADEMIC CONDUCT**

Members of the University community support high standards of individual conduct and human relations. Responsibility for one’s own conduct and respect for the rights of others are essential conditions for academic and personal freedom within the University. USF reserves the right to deny admission or refuse enrollment to students whose actions are contrary to the purposes of the University or impair the welfare or freedom of other members of the University community. Disciplinary procedures are followed when a student fails to exercise responsibility in an acceptable manner or commits an offense as outlined in the Student Conduct Code. These are described in detail in the Student Handbook: [http://www.sa.usf.edu/handbook/02/](http://www.sa.usf.edu/handbook/02/).

**Academic Dishonesty** – see Appendix

**Standards and Discipline**

Any action or the aiding, abetting, or inciting of any action which is in violation of the University’s Student Conduct Code and/or University Policy constitutes an offense for which students may be subject up to and including dismissal. Students are responsible for compliance with all public laws as well as University Rules and Regulations. Students should also familiarize themselves with the University’s Administrative Policies as defined in the Student Handbook: [http://www.sa.usf.edu/handbook/02/](http://www.sa.usf.edu/handbook/02/). These include: the Equal Opportunity Policy; the Policy on Sexual Harassment; the policy on Sexual Assault and Battery; the Alcohol Beverage Policy; the Policy on the Illegal Use of Controlled Substances and Alcohol; and the Policy on Hazing. Any act that will constitute a violation of public laws at the University will establish cause for additional legal action.
Due Process Rights
University disciplinary procedures afford students all rights of due process required for disciplinary matters. These include: being informed in writing of the formal charges; being given three working days to respond to the charges; having the choice of asking for an informal hearing; being provided a copy of the hearing procedures; being permitted to present evidence; and being given the opportunity to cross-examine any witness.

Grievance Procedures
To assure students the right to redress of academic grievances, any student may file a question or complaint in Graduate Studies. Current Procedures for filing a grievance may be found at the Graduate Studies website at http://www.grad.usf.edu.

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

Equal Opportunity Policy
The University of South Florida is committed to the principles of Equal Educational and Employment Opportunities without regard to race, color, marital status, sex, religion, national origin, disability or age, as provided by law and in accordance with the University’s respect for personal dignity. A student or employee who believes that he or she has not been treated in accordance with the University’s Equal Educational and Employment Opportunity Policy or its Policy on Sexual Harassment may file an Equal Opportunity Complaint. Additional information about these procedures may be obtained from the Office of Equal Opportunity Affairs, ADM 281, or by calling 974-4373 or 813-974-1510 (TDD). It is prohibited for any administrator, supervisor, or other employee of USF to take any retaliatory action against an individual who, in good faith, has made a charge, testified, assisted, or participated in any manner in an investigation, proceeding, or hearing under provisions of applicable law. EOA Site: http://www.usf.web.usf.edu/ea.

STUDENT INFORMATION AND RECORDS

Student Records Policy
Pursuant to the provisions of the Family Educational Rights and Privacy Act (“FERPA”; 20 USC Par. 1232g), 34 CFR Par. 99.1 et seq, Florida Statutes Sub. Par. 228.093 and 240.237 and USF Rule 6C4-2.0021, Florida Administrative Code, students have the right to:
1. Inspect and review their education records;
2. Privacy in their education records;
3. Challenge the accuracy of their education records; and
4. Report violations of FERPA to the FERPA Office, Department of Education, 400 Madison Avenue, SW, Washington, D.C. 20202 and/or bring actions in Florida Circuit Court for violations of Rule 6C4-2.001, Florida Administrative Code.
Copies of the University’s student records policy, USF Rule 6C4-2.0021, may be obtained from the Office of the Registrar or the General Counsel.

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

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

Student name, local and permanent addresses, telephone listing, major field of study, participation in officially recognized activities and sports, weight and height of members of athletic teams, dates of attendance, degrees and awards received, full- and part-time status, and the most recent previous educational agency or institution attended, and other similar information.

The University Directory, published annually by the University, contains only the following information, however: student name, local and permanent address, telephone listing, classification, and major field of study. The Directory and other listings of “directory information” are circulated in the course of University business and, therefore, are accessible to the public, as well as to students, faculty, and staff.

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

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

COURSE INFORMATION
Availability of Courses
USF does not commit itself to offer all the courses, programs, and majors listed in this catalog unless there is sufficient demand to justify them. Some courses may be offered only in alternate semesters or years, or even less frequently if there is little demand.

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

Course Descriptions
For a listing of the most current, approved course descriptions refer to the Search-a-Bull Database available online at http://www.ugs.usf.edu/sab/sabs.cfm or the list of course descriptions at http://catalog.grad.usf.edu/current/section14.asp in the Graduate Catalog

Adds
After a student has completed his/her registration on the date assigned, he/she may add courses until the add deadline specified in the Academic Calendar.

Drops
A student may drop a course(s) during the regular registration and drop/add periods (first five days of classes). No entry of the course(s) will appear on any permanent academic records and full refund of fees is due for course(s) dropped within those periods. A student may also drop a course(s) between the second and ninth week of the semester (except for Summer sessions - see the Summer Schedule of Classes for dates). Registration fees and tuition must be paid for the course(s) and the academic record will reflect a “W” grade for the dropped course(s). Courses dropped after the ninth week deadline will result in an automatic “F” grade.

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

Cancellation Before First Class Day
Students may cancel their registration by notifying the Office of the Registrar in writing prior to the first day of classes. If fees have already been paid, the student may request a full refund of fees and tuition from the Office of Purchasing and Financial Services.

Withdrawal
A student may withdraw from the University without academic penalty during the first nine weeks of any term (except for Summer Sessions). He/she must submit a completed Withdrawal Form to the Office of the Registrar. No entry is made on the academic record for withdrawals submitted during the first week of the term. All subsequent withdrawals (through the ninth week of classes in the Fall and Spring Semesters; see the Academic Calendar for summer deadlines) are posted to the academic record.
with “W” grades assigned to the courses. Withdrawal
deadlines for the Summer sessions are listed in the
http://www.ugs.usf.edu/catalogs/0304/acacal.htm
and are published in the Schedule of Classes for the
Summer Term. Students who withdraw may not
continue to attend classes. Students who withdraw
during the drop/add period as stated in the the
Academic Calendar may receive a full refund of
fees and tuition. All refunds must be requested in
writing from the Office of Purchasing and Financial
Services. No refund is allowed after this period
except for specified reasons.

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

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

Veteran Deferment Benefits
Students receiving VA benefits who apply in writing
no later than the specified date for the 60-day
deferment of fees from the Office of Veteran’s
Services have until a date listed in
http://www.ugs.usf.edu/catalogs/0304/acacal.htm to
pay registration fees in full.

Financial Aid, Waivers
Financial assistance is available through the Office
of Financial Aid. Students requiring such assistance
should contact http://www.usf.edu/finaid for
information. Students eligible for tuition waivers
(through assistantships, or employee benefits, etc.)
should contact the department and/or college
providing the waiver for information.
Graduate Academic Policies

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

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

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

Graduate Catalog
The USF Graduate Catalog, including college and program requirements, and program and course descriptions, is available on the web at http://www.grad.usf.edu

Each Catalog is published and in effect for the academic term(s) noted on the title page. Corrections and updates to the USF Graduate Catalog will be noted in an Update Page available online. University policies are subject to change and apply to all students regardless of Catalog choice.

Student’s Choice of Catalog
In order to graduate, students must meet all graduation requirements specified in the USF Catalog of their choice, as well as any additional requirements of the Program, College and University. Students who are continuously enrolled may select any one Catalog published during their continuous enrollment (refer to the policy on Continuous Enrollment for more information.) Students cannot choose a USF Catalog published prior to admission (or readmission if reinstated) or during an academic year in which they did not complete at least two terms.

The University does not commit itself to offer all the courses, programs, and majors listed in this Catalog unless there is sufficient demand. Some programs or courses may be suspended or restricted because of an insufficient number of faculty or lack of facilities. If the student cannot meet all of the graduation requirements specified in the Catalog of choice as a result of decisions and changes made by the University, appropriate substitutions will be determined by the program to ensure that the student is not penalized.

ENROLLMENT REQUIREMENTS

Minimum University Regulations:
A student taking nine or more hours toward his/her degree in a semester will be classified as a full-time student. The normal graduate load is 9-12 credit hours.

Continuous Enrollment for All Graduate Students, Excluding Those Admitted to Doctoral Candidacy
All graduate degree-seeking students (except for doctoral candidates) must be continuously enrolled, defined as completing a minimum of 2 hours of graduate credit, with grades assigned for courses taken, for at least one term (Fall, Spring, Summer) during the previous 12 months. College and programs may have additional requirements. A graduate student who does not maintain continuous enrollment as defined above is automatically dropped from the system and must apply for re-instatement of admission by contacting the Graduate Program Director of his/her degree-seeking program by the program’s admission deadline date. Students wishing to reapply to the University will be subject to the admission criteria currently in effect. Procedures for reinstatement are available on the Graduate Admissions Website.

Thesis Hours
A student who has completed the required course work and continues to occupy space, to use university facilities or staff, and to receive faculty supervision, but who has not submitted a final thesis, shall register for a minimum of 2 hours of thesis each semester. The exact number of hours will be
determined by the individual program/department and will be predicated on the staff and facilities needed to support the student. Although minimum and maximum hours required for thesis will be decided by the individual program/department, many students find it necessary to take more than the required minimum hours. Students who have not completed required coursework but who are enrolled are subject to the Continuous Enrollment Policy (above). Thesis hours may be required as part of the required coursework, so the student should check with the program for information.

**Dissertation Hours and Continuous Enrollment for Doctoral Candidates**

Students in a doctoral program who have been admitted to candidacy are required to enroll in a minimum of 6 graduate credits in any 12 month period (i.e. within three sequential semesters).

A student who has been admitted to candidacy and who has completed the required coursework and continues to occupy space, to use university facilities or staff, or to receive faculty supervision, but who has not submitted a final dissertation, shall register for a minimum of 2 hours dissertation each semester. The exact number of hours will be determined by the individual program/department and will be predicated on the staff and facilities needed to support the student. Although minimum and maximum hours required for dissertation will be decided by the individual program/department, many students find it necessary to take more than the required minimum hours.

**Enrollment during Comprehensive Exams.**

During the term in which students take the comprehensive exams, they must enroll for a minimum of 2 hours of graduate credit. If the exam is taken between semesters, the student must enroll for a minimum of 2 hours of graduate credit in the semester before or following the exam.

**Enrollment During Semester of Thesis/Dissertation Submission**

Students must be enrolled for a minimum of 2 thesis/dissertation hours during the semester that the thesis/dissertation is submitted and approved by Graduate Studies, usually the semester of graduation. Students not enrolled for the minimum requirement will not have the thesis/dissertation approved and therefore may not be certified for graduation.

**Enrollment for Graduate Teaching and Research Assistants**

Graduate Teaching and Research Assistants shall pursue a full-time course load each semester. Exceptions may occur but only after careful review by the department chairperson and concurrence by the College Dean and Dean of Graduate Studies.

**Leave of Absence (LOA)**

If a student is unable to meet the mandatory continuous enrollment requirement and unable to make continuous progress toward completion of degree requirements due to an unavoidable situation, the student should request a leave of absence in advance. The request should specify the reasons for the leave, as well as the duration. Requested LOA may be approved for up to one year. Students need to be enrolled the first semester after the leave expires. To request a LOA, the student must complete the form available at: http://download.grad.usf.edu/LEAVE_OF_ABSENCE_REQUEST.pdf. If the leave is granted, the time absent does not count against the student’s time limit to obtain the degree.

**GRADES AND ACADEMIC STANDARDS**

**In Good Standing**

Graduate students must maintain an overall average of 3.0 (“B”) in all courses, and meet the requirements of the degree program to be considered “in good standing.” No grade below “C” will be accepted toward a graduate degree. All grades will be counted in computing the overall grade point average (GPA).

Any student who is not in good standing at the end of a semester shall be placed on probation. The College or Program may also place students on probation for other reasons as designated. Notification of probation shall be made to the student in writing by the department, with a copy to the College Dean and the Dean of Graduate Studies. At the end of the probationary semester, the Department shall recommend to the College Dean, in writing, one of three alternatives:

1. removal of probation,
2. continued probation, or
3. dismissal from the degree program.

The Dean of Graduate Studies, upon recommendation by the Dean of the student’s college, may dismiss the student from a degree-seeking status after one semester of probation. The inability of a Veteran Student...
to achieve a passing cumulative GPA after two consecutive semesters of probationary status will result in termination.

**Graduate Grading System - Plus/Minus Grading**

Effective Fall Semester 2000, graduate and undergraduate grades will be assigned quality points in the Grade Point Average (GPA) grading system as follows:

- **A+** = 4.0
- **A** = 4.0 Superior Performance
- **A-** = 3.67
- **B+** = 3.33
- **B** = 3.00 Average Performance
- **B-** = 2.67
- **C+** = 2.33
- **C** = 2.00 Below Average Performance*
- **C-** = 1.67
- **D+** = 1.33
- **D** = 1.00 Failure
- **D-** = .67
- **F** = 0.00 Failure
- **FF** = N/A Failure due to academic dishonesty
- **I** = N/A Incomplete
- **M** = N/A Missing Grade / No grade reported by instructor
- **N** = N/A Audit
- **S/U** = N/A Satisfactory, Unsatisfactory
- **W** = N/A Drop or Withdrawal from course without penalty
- **Z** = N/A Continuing registration in multi-semester internship or Thesis/Dissertation Courses

*Note: Not all courses are offered under the plus/minus grading system. It is at the instructor’s discretion for offering a course under the plus/minus grading system.

**Grade Point Average (GPA)**

The GPA is computed by dividing the total number of quality points by the total number of graded (A-F) hours completed. The total quality points are figured by multiplying the number of credits assigned to each course by the quality point value of the grade given. Graduate students are not eligible for grade forgiveness. All grades earned, regardless of course level, will be posted on the transcript. If a student retakes a course, both grades will be used in the determination of the GPA.

**Satisfactory (S) / Unsatisfactory (U)**

Graduate students may not take courses in the major on an S/U (satisfactory / unsatisfactory) basis unless courses are specifically designated S/U in the Catalog. Students may take courses outside of the major on a S/U basis with prior approval of the course professor, major professor or advisor, and the Dean of the College in which the student is seeking a degree. The student may apply a maximum of 6 hours of such credit (excluding those courses for which S/U is designated in the Catalog) toward a master’s degree.

Directed Research, Thesis, and Dissertation courses are designated as variable credit and are graded on an S/U basis only. Before a student begins work under Directed Research, a written agreement must be completed between the student and the professor concerned, setting forth in detail the requirements of the course.

**Incomplete (I)**

An “I” grade may be awarded at the discretion of the instructor only when the student is otherwise earning a passing grade. Students are advised to initiate a written contract for incomplete grades. The contract should include a description of the work to be completed, the date by which the work is to be submitted and should be approved and signed by the course instructor.

Until removed, the “I” is not computed in the grade point average. If not removed after two terms (including summer), “I” grades will be converted to “IF” or “IU” (Incomplete-Fail/Unsatisfactory). Students should not re-register for courses in which they are only completing requirements to change an “I” grade. If a student wants to audit a course for review to complete course requirements, full fees must be paid. All “I” grades must be removed before graduation. Graduation will not be certified until all courses have been completed. No grade changes will be processed after the student has graduated.

**“M” and “Z” grades**

In the event a grade is lost or not submitted, the transcript will reflect a default grade of “M” (missing). This will be treated the same as an “I” grade. “M” grades that are not
removed by the end of the next semester/term will be changed to “MF” or “MU,” whichever is appropriate.” All “M” grades must be removed before graduation. Graduation will not be certified if the student has outstanding “M” grades. The “Z” grade shall be used to indicate continuing registration in multi-semester internship or thesis/dissertation courses where the final grade to be assigned will be that of the completed sequence. Upon satisfactory completion of multi-semester internship or thesis/dissertation, the final grade assigned will be an “S.” Procedures requiring petitions are processed through Graduate Studies.

Withdrawal
A student may withdraw from the University without academic penalty during the first nine weeks of any term (except for Summer Sessions). He/she must submit a completed Withdrawal Form to the Office of the Registrar. No entry is made on the academic record for withdrawals submitted during the first week of the term. All subsequent withdrawals (through the ninth week of classes in the Fall and Spring Semesters; see the Academic Calendar for summer deadlines) are posted to the academic record with “W” grades assigned to the courses. Students who withdraw may not continue to attend classes. Students who withdraw during the drop/add period as stated in the Academic Calendar may receive a full refund of fees. All refunds must be requested in writing from the Office of Purchasing and Financial Services. No refund is allowed after this period except for specified reasons.

Transfer of Credit
Transfer of graduate credit from a regionally accredited school is limited to 8 semester hours or 3 courses. All transfer credit must have been completed with grades of “B” or better and be approved by the program or college concerned. Transfer (post-baccalaureate, transfer credits from other institutions) and special student credits must be evaluated and transferred by the time of formal acceptance and enrollment. The graduate program/department will be responsible for evaluating and initiating the transfer.

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

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

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

The following sections describe the University requirements established by Graduate Studies for the Master’s and Doctoral degrees. However, individual programs and colleges may establish additional or more stringent requirements. Students must see their program advisor for a complete listing of degree requirements.

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

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

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

MASTER’S DEGREE REQUIREMENTS

Minimum Hours
A minimum of 30 hours is required for a 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 course work, 10 of which must be at the 6000 level. Up to 6 hours of 4000-level courses may be taken as part of a planned degree program. Additional graduate credit may be earned in 4000-level courses only if specifically approved by the appropriate College Dean. Students enrolled in undergraduate courses as part of a planned degree program are expected to demonstrate a superior level of performance. Graduate students may not enroll for more than 18 hours in any semester without written permission from the College Dean.

Time Limitations
For students beginning their degree program at USF in Fall 1996 or thereafter, all credits (including transfer credits) used to satisfy the requirements for the master’s degree must be taken and completed within seven (7) academic years prior to the date of graduation.

For students who began their degree program at USF before Fall 1996, all work applicable to the degree must be completed (or transferred in) within seven (7) academic years from the time a student is admitted into the program.

In the event that a student nears the end of the time limitation as specified above, but the student needs more time to complete the degree, the student may submit a request for an extension. Procedures for requesting an extension are available on the Graduate Studies website.

Students who are temporarily unable to continue the program should submit a Leave of Absence Request, which extends the time limit for the duration of the approved Leave (see the section on Leave of Absence in the Enrollment Requirements section.)

Enrollment Requirements – refer to the Enrollment Requirements Section

Major Professor
Upon mutual recommendation from the student and professor concerned, an advisor or major professor will be appointed during the student’s first term by the program director/departmental chairperson. The student and major professor should plan a program of study which, when completed, will satisfy the degree requirements specified. A copy of this program, signed by the student and professor, should be maintained in the student’s department file. A copy of the (Co-) Major Professor(s) Administrative
Responsibilities may be found on the Graduate Studies website.

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

Thesis Committee
Students working toward a thesis degree will have the benefit of a committee of members of the graduate faculty, appointed by the program director/departmental chairperson and approved, if needed, 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.

Composition:
The committee will consist of the major professor and at least two other members of the department or area of interest in which the degree is sought. (Colleges and Programs may require additional committee members.)

Member Definition:
All graduate faculty, as defined by the university and the college/department, and approved by their department and college, are assumed by Graduate Studies as qualified to be a member of and/or supervise a Masters Thesis committee. Persons desiring to serve on a Masters committee who are not defined as Graduate Faculty by the university and the college/department must submit a curriculum vitae and be approved by the department, college, and graduate studies for each committee.

Approval:
Once a committee has been determined, a Supervisory Committee Form, available online at http://www.grad.usf.edu, needs to be completed by the student and submitted to the Committee Members for original signature. Colleges may use an internal version of the form if they so choose. Notification of the committee appointment will be sent to the Dean of the College submitting the completed original form and two (2) copies for approval to the College Associate Dean’s office for final approval.

An approved and current Committee Form must be on file in the program/college before graduation may be certified. Committee forms need to be processed as early in the program as possible, but no later than the semester prior to graduation. Colleges and departments may institute additional requirements for membership on Supervisory Committees.

Changes to Committee
Changes to a Supervisory Committee must be submitted on a Change of Committee Form, available online at http://www.grad.usf.edu. Colleges may use an internal version of the form if they so choose. Original signatures of faculty being added to the Committee, along with the approval signature of the (Co-)Major Professor(s), must be on the form. Faxed signatures are acceptable.

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

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

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

Manuscript Processing Fee
Students participating in the thesis/dissertation process are required to pay a processing fee. If the student fails to complete the process within the
semester, they are required to go through the process again and subsequently pay the Manuscript Processing Fee again. More information is available on the Thesis and Dissertation website.

**Exchange of Thesis for Non-thesis Credit**
If a student changes from thesis to non-thesis during a semester and is currently enrolled in thesis credit, the current thesis credits may be exchanged without academic penalty if a Graduate Studies Petition is filed with Graduate Studies not later than the last day of drop/add.

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

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

**Thesis (Masters and Ed.S. ) Final Submission Guidelines**
Information on requirements for submission of the finished and approved manuscript copies is available online at the Thesis and Dissertation website. Students who fail to submit the final copy of a thesis by the posted submission deadline will be considered for graduation in the following semester and must therefore apply for graduation by the posted deadline, enroll in a minimum of 2 thesis hours for that subsequent semester, submit their manuscript for processing again, and pay the manuscript processing fee again. Only after the manuscript has been approved by Graduate Studies for filing in the University Library can the student be certified for the degree.

**Mandatory Electronic Submission**
Students who matriculated as of Fall 2002 and forward are required to submit the thesis or dissertation in an electronic format (ETD). Requirements are procedures are available at the Thesis and Dissertation website.

**Thesis Change of Grade**
Graduate Studies will notify the registrar of the change in thesis grade from “Z” to “S” once the final manuscript has been received, reviewed and certified for permanent filing in the University Library.
EDUCATIONAL SPECIALIST DEGREE (Ed.S.)

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

DOCTORAL DEGREE (Au.D., Ph.D., Ed.D.)
The doctoral degree is granted in recognition of high attainment in a specific field of knowledge. It is a research degree and is not conferred solely upon the earning of credit, the completion of courses, or the acquiring of a number of terms of residency. The length of residency and the requirements below are minimums; programs/colleges may elect to establish more rigorous requirements.

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

The department or program will appoint an advisor for each student during the first semester of residency. The advisor will advise on any specific subject matter deficiencies and assist in the choice of a major professor and area of research.

Minimum Hours
A minimum of 90 hours beyond the baccalaureate degree is required.

Time Limitations
For students admitted to their doctoral program in Fall 1996 or thereafter, all course work taken after admission to the Ph.D. program and before admission to candidacy must be completed within 5 academic years for those entering with a Master’s degree and within 7 academic years for those entering without a Master’s degree. If admitted to candidacy on August 30, 1996 or thereafter, the candidate has 5 academic years to obtain the doctoral degree. For students admitted to their doctoral program before Fall 1996 or admitted to candidacy before Aug. 30, 1996, see the 1995-96 Graduate Catalog for previous time limit rules.

In the event that a student nears the end of the time limitation as specified above, but the student needs more time to complete the degree, the student may submit a request for an extension. Procedures for requesting an extension to the time limit are available on the Graduate Studies website. Students who exceed the time limitations may have their registration placed on hold until a request for extension has been approved.

Students who are temporarily unable to continue the program should submit a Leave of Absence Request, which extends the time limit for the duration of the approved Leave (see Leave of Absence in the Enrollment Requirements section.)

Enrollment (See Enrollment Requirements Section)

Academic Residency
Students must be enrolled in a doctoral program for a minimum of 3 years beyond the baccalaureate degree. At least one academic year, defined as minimum of 9 hours per semester for 2 semesters (18 hours total), must be completed on a USF campus. Deviations from this rule must be recommended by the student’s doctoral committee and approved by the Dean of Graduate Studies.

Major Professor
Upon mutual recommendation from the student and professor concerned, a Major Professor will be appointed during the student’s first term by the program director/departmental chairperson. The student and Major Professor should plan a program of study which, when completed, will satisfy the degree requirements specified. A copy of this program, signed by the student and professor, should be maintained in the student’s department file.

Major Professors are expected to be active in scholarly pursuits as evidenced by at least one refereed publication in the last three years. A copy of the (Co-) Major Professor(s) Administrative Responsibilities may be found on the Graduate Studies website.

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

Doctoral Committee
As soon as an area of research is determined and a major professor is chosen, a Doctoral Supervisory Committee will be approved for the student. The
department will request approval of the Doctoral Committee from the Dean of the College and, as needed, the Dean of Graduate Studies. The Doctoral Committee will approve the student’s course of study and plan for research, supervise the research, grade the written comprehensive qualifying examination, read and approve the dissertation, and conduct the dissertation defense.

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

**Member Definition:**
All graduate faculty as defined by the university and the college/department and approved by their department and college are assumed by Graduate Studies as qualified to be a member of a Doctoral Committee. Persons desiring to serve on a Doctoral committee who are not defined as Graduate Faculty by the university and the college/department must submit a curriculum vitae and be approved by the Department, College, and, as needed, Graduate Studies for each committee.

**Approval:**
Once a committee has been determined, a Supervisory Committee Form, available online at [http://www.grad.usf.edu](http://www.grad.usf.edu), needs to be completed by the student and submitted to the Committee Members for original signature. Colleges may use an internal version of the form if they so choose. To insure uniformity of excellence across the colleges, (Co-)Major Professor(s) of Ph.D. Dissertation Committees will need to submit a current curriculum vitae (equivalent to an NIH Bio, approximately two pages long with the last three [3] years of scholarly activity included) with the committee appointment form to the College Graduate Dean or designee. This approval is in addition to the approval from their department chairman.

Once approved, the original form and the approved CV are placed in the student’s file.

**Changes to Committee**
Changes to a Supervisory Committee must be submitted on a Change of Committee Form, available online at [http://www.grad.usf.edu](http://www.grad.usf.edu). Colleges may use an internal version of the form if they so choose. Original signatures of faculty being added to the Committee, along with the approval signature of the (Co-)Major Professor(s), must be on the form. Faxed signatures are acceptable. Faculty who are removed from the Committee are not required to sign the form, provided that the (Co-)Major Professor(s) has signed. In such instances the signature of the (Co-)Major Professor(s) indicate(s) approval of the change, as well as acknowledgement and approval of the change by the removed member.

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

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

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

As long as the Candidacy request is received between the first and last day of class during a semester, and the Candidacy is cleared for approval, the Candidacy will be effective as of that semester.
The student may then enroll in dissertation hours the following semester.

**Dissertation Hours**
Each department determines the total number of dissertation hours required for completion of the degree. Departments may, with College approval, apply Directed Research hours toward the total number of dissertation hours required. Students may begin to register for dissertation hours in the semester following Admission to Candidacy. No directed research hours will be converted to dissertation hours prior to or during the semester of Candidacy. Once Candidacy is approved, the student must enroll for a minimum of 2 dissertation hours each semester that the student is working on the dissertation and using university resources. Note: students must be enrolled in a minimum of 2 dissertation hours during the semester of dissertation submission to Graduate Studies. For more information refer to the enrollment policies.

**Continuous Enrollment for Doctoral Candidates/Leave of Absence**
Refer to Enrollment Requirements

**Dissertation**
The Dissertation must conform to the guidelines of the University. Refer to the Thesis and Dissertation Guidelines, available on the web at http://www.grad.usf.edu for complete information about requirements, procedures, and deadlines. For enrollment requirements, refer to the enrollment policies in the Catalog.

**Manuscript Processing Fee**
Students participating in the thesis/dissertation process are required to pay a processing fee. If the student fails to complete the process within the semester, they are required to go through the process again and subsequently pay the manuscript processing fee again. More information is available on the Thesis and Dissertation website.

**Dissertation Defense**
After the Doctoral Committee has determined that the final draft of the dissertation is suitable for presentation; the Committee will request the scheduling and announcement of the Dissertation Defense (also called Final Oral Examination.) Check with the College and program for information on the procedures for this process. Forms are available on the Graduate Studies website, at http://www.grad.usf.edu , however, the college and program may use internal forms. A copy of the Announcement should be sent to the Office of Graduate Studies, preferably two weeks in advance of the defense date. The Announcement must also be posted in a public forum for a minimum of twenty-four hours to comply with statute requirements for a public meeting.

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

**Dissertation Final Submission Guidelines**
Information on requirements for submission of the finished and approved manuscript copies is available online at the Thesis and Dissertation website. Students who fail to submit the final copy of a dissertation by the posted submission deadline will be considered for graduation in the following semester and must therefore meet apply for graduation by the posted deadline, enroll in a minimum of 2 dissertation hours for that subsequent semester, submit their manuscript for processing again, and pay the manuscript processing fee again. Only after the manuscript has been approved by Graduate Studies for filing in the University Library can the student be certified for the degree.

**Mandatory Electronic Submission**
Students who matriculated as of Fall 2002 and forward are required to submit the thesis or dissertation in an electronic format (ETD). Requirements are procedures are available at the Thesis and Dissertation website.

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

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

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

1. The recommendations of sponsors, regarding publication of research results should be considered advisory rather than mandatory.
2. The maximum delay in publication allowed for pre-reviews and patent or copyright application should not exceed three months from the date the thesis/dissertation is filed with Graduate Studies.
3. Students should not be delayed in the final defense of their dissertations/theses by agreements involving publication delays.


**Dissertation Change of Grade**
Graduate Studies will notify the registrar of the change in dissertation grade from “Z” to “S” once the final manuscript has been received, reviewed and certified for permanent filing in the University Library.
College Information/Requirements

The following pages provide information about each college and programs offered within each college. Information about the programs follows in the next section.

School of Architecture
College of Arts and Sciences
College of Business Administration
College of Education
College of Engineering
College of Graduate Studies
College of Marine Science
College of Medicine
College of Nursing
College of Public Health
College of Visual and Performing Arts

St. Petersburg – College of Arts and Sciences
St. Petersburg – College of Business Administration
St. Petersburg – College of Education
School of Architecture and Community Design

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

Web address: http://www.arch.usf.edu/

Phone:  813-974-4031
Fax:    813-974-2557
Email:  information@arch.usf.edu

Interim College Dean:   Daniel Powers
Associate Dean:          n/a
Graduate Coordinator:   Daniel Powers

Accreditation:
Accredited by the National Architecture Accrediting Board.

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

Major Research Areas:
Community Design and Research

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

Name of Programs Offered:
Architecture

Concentrations Offered:
See Program listing

Graduate Certificates Offered:
Community Design and Development

College Requirements:
  n/a
College of Arts and Sciences

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

Web address: http://www.cas.usf.edu/

Phone: 813-974-2503
Fax: n/a
Email: n/a

College Interim Dean: Kathleen Heide
Associate Dean: Bruce Cochrane
Graduate Coordinator: Bruce Cochrane

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

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

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

Major Research Areas: See individual departments.

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

Name of Programs Offered:
Master of Arts - M.A

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

Master of Liberal Arts - M.L.A

Master of Public Administration - M.P.A

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

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

Doctor of Audiology - Au.D.

Doctor of Philosophy - Ph.D.
Aging Studies, Applied Anthropology, Biology, Chemistry, Communication, Communication Sciences and Disorders, Criminology, Second Language Acquisition & Instructional Technology*, English, Geology, Mathematics, Philosophy, Physics (Applied), Psychology
*offered through the Department of Secondary Education
Concentrations Offered:
Africana Studies
American History
Analytical Chemistry
Ancient History
Aqueous Geochemistry
Atmospheric Physics
Atomic and Molecular Physics
Biochemistry
Biogeochemistry
Clinical Psychology
Coastal Geology
Cognitive and Neural Sciences
Community Corrections
Computational Chemistry
Creative Writing
Environmental Chemistry
Environmental Geography
Environmental Geophysics
European History
Genetics
Geomorphology
Hearing Sciences & Audiology
Humanities
Hydrogeology
Industrial and Organizational Psychology
Inorganic Chemistry
Journalism Studies
Laser Physics
Latin American History
Latin/Greek: co-op program with U.F.
Liberal Studies
Literature
Mass Communication Studies
Materials Physics
Medical Physics
Medieval History
Microbiology
Neurocommunicative Sciences
Optical Physics
Organic Chemistry
Paleoclimatolody
Paleontology Petrology
Physical Chemistry
Polymer Chemistry
Public Relations Studies
Pure and Applied
Rhetoric and Composition
Semiconductor Physics
Social and Political Thought
Solid State Physics
Speech-Language Sciences
Statistics
Technical Geography
Tectonophysics

Urban and Social Geography
Urban Law Enforcement

Graduate Certificates Offered:
See 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 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 6 credit hours of Dissertation during each previous 12-month period (previous 3 terms, e.g., Fall, Spring, Summer) until the degree is granted.
College of Business Administration

University of South Florida
College of Business Administration
4202 E. Fowler Ave BSN3403 (loc BSN 2202)
Tampa, FL  33620

Web address:  http://www.coba.usf.edu/
Phone:  813-974-3335
Fax:  813-974-4518
Email:  n/a

College Dean:  Robert L. Anderson
Associate Dean:  Richard L. Meyer
Graduate Coordinator:  Wendy E. Baker

Accreditation:
The Ph.D., M.B.A., M.S. in Management Information Systems, M.S. in Management: Leadership and Organizational Effectiveness, Master of Accountancy, and M.A. in Economics programs in the College of Business Administration are accredited by the AACSB – International (Association to Advance Collegiate Schools of Business). The College also is a member of the Graduate Management Admission Council (GMAC).

Mission Statement:
In the College of Business Administration, graduate programs are designed to make graduate level professional education available to qualified persons who seek managerial and professional positions in business, government, or education. Programs support research activity so vitally necessary to maintain a quality graduate faculty and program, as well as foster the independent, innovative thinking and action appropriate to a professional individual.

Major Research Areas:  Contact College for information.

Types of Degrees Offered:
Master of Accountancy (M.Acc.), Master of Arts (M.A.), Master of Business Administration (M.B.A.), Master of Science (M.S.), Doctor of Philosophy (Ph.D.)

Name of Programs Offered:
Master of Accountancy - M.Acc.
Accountancy
Master of Arts - M.A.
Business Economics

Master of Business Administration - M.B.A.
Business Administration (full-time or part-time)
Executive M.B.A.
Executive M.B.A. for Physicians (Not Accepting Applications)
Saturday M.B.A. (Not Accepting Applications)
M.B.A. Program at Sarasota
M.B.A. Program at St Petersburg

Master of Science - M.S.
Management
Management Information Systems

Doctor of Philosophy - Ph.D.
Business Administration

Concentrations Offered:
See Application Tracks below.

Graduate Certificates Offered:  n/a

COLLEGE REQUIREMENTS

Application Tracks
M.Acc. –
Accounting Assurance
Accounting Information Systems

Non-Degree Seeking Students
The College of Business Administration will approve, on a space available basis, non-degree seeking student status only for transient students (degree-seeking students at another accredited institution) or for students with valid reasons to register in this status and who meet all admission requirements.

Organizations and Centers:
The Center for International Business (CIB) is a major resource for international business education, community development, and research in the West-Central Florida area. It is committed to:* Ensuring that USF provides its students with excellent preparation for business careers in the global economy. This is done through summer abroad programs, international and exchange opportunities.
with universities around the world.* Conducting community outreach that enhances international business activity and capability in the West-Central Florida area.* Promoting and facilitating research on important international business and economic issues.

**The Center for Entrepreneurship** is a multidisciplinary, campus-wide center focusing on entrepreneurial education, training and research. The vision of the USF Center for Entrepreneurship is to create an internationally recognized Center of Excellence for educating and training entrepreneurial leaders using innovative, interdisciplinary approaches. The Center seeks to create unique learning opportunities through partnerships among students, faculty and community entrepreneurial leaders. These partnerships leverage the strengths of all participants to create a nationally recognized program which enables students, faculty and entrepreneurial leaders to develop the critical skills necessary to (1) identify new opportunities (2) accelerate the commercialization of new technologies and (3) create and grow successful new business ventures. The Center for Economic Policy Analysis at the University of South Florida is a non-profit, ideologically neutral collection of scholars devoted to the analysis of social policy relevant to the Tampa Bay region, the State of Florida and the Nation. Our unifying theme is a fundamental belief that good decisions concerning social policy are grounded in a thorough understanding of economic principles.

**The University of South Florida Leadership Center** was founded in 1999, and its primary mission is to be an interactive center, linking businesses, educational institutions, and the community by sharing ideas to aid in the journey for personal leadership development. The vision of the University of South Florida Leadership Center is to become the premier learning community devoted to nurturing and sharing ideas on leadership development for the 21st Century.

**The Small Business Development Center** offers assistance in facilitating the initiation and growth of entrepreneurial forms of private enterprise. It offers workshops and individual consultation. A continued support system is provided for its clients to ensure successful implementation. Students under faculty direction provide assistance in developing business, marketing, and financial plans for existing and high growth businesses.

**The Center for Economic Development Research (CEDR)**, initiates and conducts innovative research on economic development. The Center’s education programs are designed to cultivate excellence in regional development. CEDR provides the College of Business Administration, the University, local communities, and in particular, the Tampa Bay Region’s economic development professionals with information and analysis on a wide range of urban, regional, and international issues affecting the Region. CEDR maintains an on-line data center focusing on the measurement of variables that pertain to the demographics and business activity in the Region and state of Florida. CEDR also publishes the quarterly journal, The Tampa Bay Economy, to widely disseminate findings of economic development analyses.

**The Institute for Information Systems Management (IISM)** was established as a partnership between business, government and higher education. Its mission is to establish a major center for research, education and professional networking that will help firms operate effectively in the information age. From time to time the Institute presents seminars, workshops, and round-table discussions on important issues in Information Systems Management and conducts applied research on topics of interest to its corporate affiliates. IISM resides in the College of Business Administration and can be reached during normal business hours at (813) 974-5524.
College of Education

University of South Florida
College of Education
4202 E. Fowler Ave EDU162
Tampa, FL 33620

Web address: http://www.coedu.usf.edu/college/

Phone: 813-974-3406
Fax: 813-974-3391
Email: briscoe@tempest.coedu.usf.edu

College Dean: Colleen Kennedy
Associate Dean: Carine Feyten
Graduate Coordinator: Diane Briscoe

Accreditation:
In addition to the University’s regional accreditation by the Commission on Colleges of the Southern Association of Colleges and Schools (SACS), the College is accredited by the National Council for the Accreditation of Teacher Education (NCATE). Its initial certification programs are approved by the Florida Department of Education.

Mission Statement:
The College of Education is a professional school that seeks to contribute to the improvement and reinvention of public schooling through the preparation of teachers, administrators, specialized practitioners, and researchers. The College emphasizes learning that enables students to develop abilities in intellectual inquiry, problem solving, and leadership in order for them to function effectively in their field. The College offers a variety of graduate degree programs, including the Master of Arts (M.A.), the Master of Arts in Teaching (M.A.T.), the Master of Education (M.Ed.), the Education Specialist (Ed.S.), the Doctor of Education (Ed.D.) and the Doctor of Philosophy (Ph.D.).

Many concentrations/specializations are offered under the umbrella of “Curriculum and Instruction.” Graduate Certificates are also offered in a number of areas. For information about the different degree programs refer to the individual programs. For information about the concentrations/specializations, refer to the College or department. Students seeking initial teacher certification must be admitted to one of the degree programs offered in the College. Individuals seeking additional information should contact the College of Education Graduate Studies Office at 813-974-3406, or http://www.coedu.usf.edu/sas. Please be advised that program and/or course requirements are subject to change per state legislative mandates, Florida State Department of Education program approval standards, and accreditation criteria.

Major Research Areas:
Contact College for information.

Types of Degrees Offered:

Name of Programs Offered:
Master of Arts (M.A.)
Adult Education
Business and Office Education
Career and Technical Education
Counselor Education
Early Childhood Education
Elementary Education
Elementary Education/ESOL (Dual Track)
English Education
English Education/ESOL (Plan II program)
Foreign Language Education French, Spanish German
Foreign Language Education/ESOL (Plan II program)
Gifted Education
Junior College Teaching (with Arts & Sciences)
Mathematics Education
Music Education (contact the College of Visual and Performing Arts)
Physical Education
Reading Education
School Psychology (only available when combined with the Ed.S. or Ph.D. degree)
Science Education (Biology, Chemistry, Physics)
Social Science Education
Special Education
Special Education, Behavior Disorders
Special Education, Mental Retardation
Special Education, Motor Disabilities (currently unavailable)
Special Education, Specific Learning Disabilities
Special Education, Varying Exceptionalities/ESOL Vocational Education (currently closed to new admissions)
Master of Arts in Teaching (M.A.T.)
Elementary Education/ESOL
English Education/ESOL
Foreign Language Education/ESOL
Mathematics Education (in process, contact the program)
Science Education (in planning, contact the program)
Social Science Education
Special Education, Varying Exceptionalities/ESOL

Master of Education (M.Ed.)
Curriculum and Instruction
Educational Leadership

Education Specialist (Ed.S.)
Curriculum and Instruction
Educational Program Development

Doctor of Education (Ed.D.)
Educational Leadership
Educational Program Development

Doctor of Philosophy (Ph.D.)
Curriculum and Instruction
School Psychology
Second Language Acquisition and Instructional Technology (joint program with the College of Arts and Sciences)

Concentrations Offered:
Administration of Special Education
Adult Education
Biology
Business
Business and Office Education
Career and Technical Education
Chemistry
College Leadership
College Student Affairs
Counselor Education
Early Childhood Education
Economics
Elementary Education
Elementary Education/ESOL
Engineering (Eng. Degree required)
English

Graduate Certificates Offered:
n/a

College Requirements:

Master Degree Programs
Master of Arts (M.A.)
Master of Arts in Teaching (M.A.T.)
Master of Education (M.Ed.)

English Education
Foreign Language Education
Foreign Language Education/ESOL (Plan II program)
French
Geology
German
Gifted Education
Higher Ed, Administration
Higher Ed, Community College Teaching
History
Instructional Technology
Interdisciplinary Education
Language Arts
Literacy in a Diverse Society
Mathematics
Mathematics Education
Measurement and Evaluation
Music Education (contact College of Visual and Performing Arts)
Physics
Political science
Reading & Language Arts Education
Reading Education
Second Language Acquisition and Instructional Technology
School Psychology
Science Education
Science Education, Biology
Science Education, Chemistry
Science Education, Physics
Secondary Education
Social Science Education
Sociology
Spanish
Special Education
Special Education, Behavior Disorders
Special Education, Mental Retardation
Special Education, Motor Disabilities (currently unavailable)
Special Education, Specific Learning Disabilities
Speech Communication
Vocational Education (currently closed to new admissions)

Advanced Graduate Degree Programs
Education Specialist (Ed.S.)
Doctor of Education (Ed.D.)
Doctor of Philosophy (Ph.D.)

Master’s Degree Programs
The master’s programs offered in the College of Education lead to a Master of Arts degree (M.A.), a Master of Arts in Teaching degree (M.A.T.), or a
Master of Education (M.Ed.) degree. Students pursuing a Master’s degree must have an earned baccalaureate degree from a regionally accredited institution, or an equivalent foreign degree as determined by an evaluation conducted by an agency approved for foreign credential evaluation.

The M.A. degree is primarily designed to increase competence in teaching specialization or to provide professional preparation in one of the service areas of education. For most programs, three plans of study are available, depending on the student’s background and professional goals. Most programs offer a plan of study that leads to initial teacher certification for holders of a non-education baccalaureate degree. See College of Education requirements for the M.A. degree.

The M.A.T. degree is designed for holders of a non-education baccalaureate degree who desire to meet initial teacher certification requirements as part of a graduate program. The baccalaureate degree must be appropriate (as deemed by program faculty) for the teaching field in which certification is sought. See College of Education requirements for the M.A.T. degree.

The M.Ed. degree is designed for individuals who have a minimum of two years of relevant educational or professional experience in the specialization selected, as judged by the program faculty. This degree option is offered to students pursuing graduate study in educational leadership or curriculum and instruction with a given specialization. See College of Education requirements for the M.Ed. degree.

Planned Program of Studies - During the first term after admission to the program, all students must file a planned program of studies, which is to be completed in consultation with an advisor assigned by the department, and is to be approved by the student, advisor, department chairperson, and college’s coordinator of graduate studies. This planned program lists the coursework required for completion of the degree. Three copies of the completed program should be filed with the Coordinator of Graduate Studies in the College of Education.

Comprehensive Examinations - During the last term of enrollment, students must perform satisfactorily on a written comprehensive examination or alternative measure as determined by the program (contact department). Students must be enrolled for a minimum of two graduate hours during the semester in which these examinations are taken.

Process Core Examinations - Graduate students with sufficient undergraduate background may take the Process Core Examinations after consultation with their faculty advisors. The Process Core Examinations are available in Foundations of Measurement, Psychological Foundations, and Social Foundations of Education. Successful performance on the examination enables students to waive the course requirement, but they must take elective courses of equal hours. Graduate students who are intending to meet initial certification requirements as part of their planned program are not eligible to take the Process Core Examinations unless they have had a comparable course at the undergraduate level.

College of Education Requirements for Master of Arts (M.A.)
The M.A. degree is designed to increase competence in a teaching specialization, to provide initial teaching certification, or for professional preparation in one of the service areas of education. A minimum of 30 semester hours is required for the master’s degree, at least 16 hours of which must be at the 6000 level. Courses at the 7000 level are advanced graduate level courses and thus are not approved to be part of the master’s degree program. There are four plans of study options for students:

The Plan I (see requirements in Section 12 – Programs) program of graduate study is for those with appropriate initial teacher certification in the area of specialization who desire to increase their competence in a subject specialization or to receive additional professional preparation in an educational service area. The Plan I program is not available in all specialization areas. Contact the program for information.

Plan II programs are appropriate for students who wish to meet teacher certification requirements in an area of specialization while pursuing a master’s degree program approved for initial certification by the State of Florida. Contact the program for program requirements, and http://www.coedu.usf.edu/sas for internship and State of Florida testing requirements. Plan II programs are not available in all specialization areas.

Plan III (not available in all areas)
This is a program of graduate study for the holder of a non-education baccalaureate degree who does not
desire to meet initial certification requirements in the State of Florida. This plan is not available in all specialization areas. Please contact the program for information.

**College of Education Requirements for Master of Arts in Teaching (M.A.T.)**
The Master of Arts in Teaching (M.A.T.) degree is designed for holders of a non-education baccalaureate degree who desire to meet initial teacher certification requirements through a graduate degree program that is state-approved for initial certification. The baccalaureate degree must be appropriate (as deemed by program faculty) for the teaching field in which certification is sought. Contact the program for program requirements, and [http://www.coedu.usf.edu/sas](http://www.coedu.usf.edu/sas) for internship and State of Florida testing requirements.

**College of Education Internship Requirements**
All students admitted to initial certification degree programs must complete an internship. Please access [http://www.coedu.usf.edu/sas](http://www.coedu.usf.edu/sas) for specific internship and State of Florida testing requirements.

**College of Education Requirements for the Master of Education degree (M.Ed.)**
The M.Ed. degree is designed for individuals who have a minimum of two years of relevant educational or professional experience in the specialization selected, as judged by the program faculty. This degree option is offered to students pursuing graduate study in educational leadership or curriculum and instruction with a given specialization. Two degree tracks are offered.

1. **Educational Leadership** - This degree is designed to prepare administrators and supervisors in organizational, management, and instructional leadership skills for K-12 schools and community colleges. Successful completion of the K-12 program track leads to Florida certification in Educational Leadership.

2. **Curriculum and Instruction** with a concentration/specialization area – This degree is designed for the individual who has a minimum of two years of relevant educational or professional experience in a specialization area who wishes to pursue advanced study in that area. The primary objective is to prepare instructional leaders through courses in curriculum, methods, supervision, learning principles, human interaction, and areas of concentration/specialization. The foundation areas (professional studies) receive greater emphasis in the M.Ed. programs than the M.A. programs. Coursework in the concentration/specialization may include courses in colleges other than the College of Education.

The M.Ed. degree requires a minimum of 33 semester hours with 60 percent or more of the courses at the 6000 level. Courses at the 7000 level are advanced graduate level courses and thus are not approved to be part of the master’s degree program.

**Program of Study**
Process Core 12 hours minimum
- EDF 6432  
- EDF 6481
- EDF 6211 or EDF 6215 or equivalent
- EDF 6517 or EDF 6544 or
- EDF 6606 or equivalent
Curriculum and Instruction 3 hours min.
- EDG 6627 (a prerequisite course may be required at the undergraduate level)
- Concentration (Content Specialization) 18 hours minimum
- Comprehensive Examination

See individual program descriptions and contact relevant department for specific program requirements.

**Advanced Graduate Degree Programs**
The advanced graduate degree programs lead to the Education Specialist (Ed.S.) degree, the Doctor of Education (Ed.D.) degree, and the Doctor of Philosophy (Ph.D.) degree. To be considered for admission to any advanced graduate degree program, students must have earned degrees from a regionally accredited institution, or hold equivalent foreign degrees as determined by an evaluation conducted by an agency approved for foreign credential evaluation, meet the college-specified minimum GRE and GPA requirements and be favorably recommended also by program faculty or a program admissions committee. Additionally, students must comply with any other college or program requirements specified for the prospective degree program.

The Ed.S. and Ph.D. degrees with a concentration/specialization in Interdisciplinary Education are administered by the Interdisciplinary Education Program Coordinator, Dr. E.V. Johanningmeier, EDU 380-S, (813) 974-9495.

**Education Specialist Degree Program (Ed.S.)**
This degree is offered in the areas of Educational
Leadership and in Curriculum and Instruction with a concentration/specialization area.

College of Education Requirements for the Education Specialist Degree (Ed.S.)
The Ed.S. degree consists of a minimum of 36 hours beyond the master’s degree and is flexible in its requirements. The degree is designed to provide professional educators with an opportunity to develop competencies in areas of special needs and interests. Consequently, the degree program has few required courses, and each student’s program is individually planned in consultation with a faculty program committee. Courses at the 5000 level are inappropriate; and a minimum of 15 hours should be taken at the 7000 level.

Program of Study
Concentration/Specialization coursework 27 hours min.
Thesis (Project) 9 hours min
Comprehensive Examination (Oral and/or written)
Oral defense of the project/thesis

Thesis/Project – Ed.S. Degree. The student is required to plan and successfully complete an individual thesis or project. The purpose is to provide an opportunity for the student to apply knowledge gained in the program to the resolution of significant needs arising from professional practice. A minimum of 9 semester hours of thesis enrollment is required in the Ed.S. degree program. Students are required to enroll for a minimum of 2 semester hours in the 6971 thesis course each semester while working on the Ed.S. project and for 2 semester hours in the semester during which the student plans to graduate. Students who have not completed the project after enrolling in the required 9 hours must continue to enroll in a minimum of 2 credit hours each semester, including the semester in which the project is submitted to the College Associate Dean for Academic Affairs or Graduate Studies (School Psychology students). Students must have an oral defense of the project/thesis with their project/thesis supervisory committee.

Doctor of Education Degree Program (Ed.D.)
The Doctor of Education degree is available in Educational Leadership, and in Educational Program Development with concentrations/specializations in Adult Education, Elementary Education, Special Education Administration and Supervision, or Vocational Education. The focus of this degree program is on the improvement of educational practice. Although research skills are recognized as being the basis of any doctoral program, the Ed.D. is considered more a practitioner’s than a research degree. Currently, the degrees in Vocational Education, and Special Education Administration and Supervision are closed to new admissions.

College of Education Requirements for the Doctor of Education Degree (Ed.D.)
Program of Study
The Ed.D. requires a minimum of 76 hours beyond the master’s degree.
Concentration/Specialization
Major Emphasis Area 24 hours
Curriculum and Instruction 6 hours
Statistics/Measurement/ Research Design 11-16 hours
Psychological and Social Foundations 11-12 hours
Dissertation 24 hours min.

Dissertation
Beginning with the semester immediately following admission to candidacy, students must be enrolled for a minimum of 12 dissertation credit hours in each 12-month period for the first two years after being admitted to candidacy. Students may complete the 12 hours in either two or three semesters but must be enrolled for dissertation hours in the Fall and Spring semesters of each year during the two year (24-month) period. Students may elect not to register for dissertation hours during the summer semester if in this two-year period they are not using university facilities or other USF resources, including faculty and staff time.

If such resources are being used, then enrollment in a minimum of two dissertation hours during the Summer semester is required. If the dissertation is not completed by the time the 24 hours of dissertation credit have been accrued, students must enroll continuously, including Summer semester, for a minimum of two dissertation hours per semester until graduation. (This includes the semester during which the dissertation is defended and the semester in which final deposit of the dissertation is made to the Office of Graduate Studies).

Exceptions to the continuous enrollment policy may be approved if the major professor writes a letter of petition to the Associate Dean for Academic Affairs, indicating specifically the nature and duration of the exception and the justification. Unless an exception has been approved, failure to enroll as specified will result in dismissal of the student from the program. To be readmitted, the student must secure permission from the major professor and write a letter of
petition, co-signed by the major professor, to the Associate Dean for Academic Affairs, outlining in detail a timeline for completing the dissertation. The Associate Dean for Academic Affairs will approve or deny the petition. This process will be independent of, and will not replace, any procedures required for readmission by the University Office of Graduate Studies.

**Residency**
Ed.D. students must enroll for at least nine hours of graduate work in each of two semesters in a 12-month period. Individual programs may have additional residency requirements.

**Doctoral Qualifying Examination**
Students must demonstrate satisfactory performance on the Doctoral Qualifying Examination before admission to candidacy. (See current College of Education Graduate Handbook, [http://www.coedu.usf.edu](http://www.coedu.usf.edu); also consult Faculty Program Advisor).

**Doctor of Philosophy Degree Program (Ph.D.)**
The Doctor of Philosophy degree is available in Curriculum and Instruction with concentrations/specializations in the following areas: Adult Education, College Student Affairs, Counselor Education, Early Childhood Education, Elementary Education, English Education, Higher Education (includes an emphasis in Community College Teaching), Instructional Technology, Interdisciplinary Education, Mathematics Education, Measurement and Evaluation, Reading/Language Arts Education, Science Education, Secondary Education, Secondary Education (Social Science Emphasis), and Special Education. The degree in Vocational Education is currently closed to new admissions. Contact the College of Visual and Performing Arts for information on the Ph.D. in Music Education.

The Ph.D. degree is also available in School Psychology, and Second Language Acquisition and Instructional Technology (joint program with the College of Arts and Sciences).

**College of Education Requirements for the Doctor of Philosophy Degree Program (Ph.D.)**

**Program of Study**
Ph.D. program requires a minimum of 75 credit hours beyond the master’s degree.
Concentration/Specialization
Major Emphasis Area 18 hours minimum
College of Engineering

University of South Florida
College of Engineering
4202 E. Fowler Ave ENB118
Tampa, FL  33620

Web address:  http://www2.eng.usf.edu/
Phone:  813-974-3780
Fax:  813-974-5094
Email:  n/a

College Dean:    Louis Martin-Vega
Associate Dean:  Carlos Smith
Graduate Coordinator:  Carlos Smith

Accreditation:
The Commission on Colleges of the Southern Association of College and Schools. Contact College for additional accreditation Information

Mission Statement:
The mission of the USF College of Engineering is to continuously aspire to excellence in teaching, research and public service. The college values academic excellence, professionalism, ethics, and cultural diversity among its students, staff, and faculty. The College is committed to addressing the needs of our constituencies and gives careful consideration to the urban and suburban populations in our immediate service area. At the graduate level, students working in close collaboration with faculty, pursue advanced topics within their disciplines that will result in advancements in their professions and society at large. Utilizing the expertise of its individual and collective faculty, the college is dedicated to the development of new fundamental knowledge, processes or procedures through research, which will benefit all humanity. The college promotes multi-disciplinary approaches, commitment to life-long learning, and awareness of societal issues, which are requisite for meeting technological challenges. The college provides technical assistance and technology transfer to the region, state and nation. In all facets of teaching, research and service, the college emphasizes close liaison with industry and government to provide students and faculty with the skills and perspectives needed to ensure effective technological leadership.

Major Research Areas:
Contact College for information.

Types of Degrees Offered:
Master of Chemical Engineering (M.C.H.E.)
Master of Civil Engineering (M.C.E.)
Master of Computer Engineering (M.C.P.)
Master of Computer Science (M.C.S.)
Master of Electrical Engineering (M.E.E.) --
   (Currently not accepting students)
Master of Engineering (M.E.)
Master of Environmental Engineering (M.E.E.)
Master of Industrial Engineering (M.I.E.)
Master of Mechanical Engineering (M.M.E.),
Master of Science in Biomedical Engineering (M.S.B.E.)
Master of Science in Chemical Engineering (M.S.C.H.)
Master of Science in Civil Engineering (M.C.E.),
Master of Science in Computer Engineering (M.S.C.P.)
Master of Computer Science (M.S.C.S.)
Master of Science in Electrical Engineering (M.S.E.E.)
Master of Science in Engineering (M.S.E.)
Master of Science in Engineering Management (M.S.E.M.)
Master of Science in Engineering Science (M.S.E.S.)
Master of Science in Environmental Engineering (M.S.E.V.)
Master of Science in Industrial Engineering (M.S.I.E.)
Master of Science in Mechanical Engineering (M.S.M.E.)
Doctor of Philosophy (Ph.D.)

Name of Programs Offered:
Master of Chemical Engineering (M.C.H.E.)
Chemical Engineering

Master of Civil Engineering (M.C.E.)
Civil Engineering

Master of Computer Engineering (M.C.P.)
Computer Engineering

Master of Computer Science (M.C.S)
Computer Science

Master of Electrical Engineering (M.E.E)
Electrical Engineering (Not accepting students)

Master of Engineering (M.E.)
Chemical Engineering
Civil Engineering
Computer Engineering
Computer Science
Electrical Engineering (Not accepting students)
Environmental Engineering
Mechanical Engineering

Master of Environmental Engineering (M.E.V.E.)
Environmental Engineering
Master of Industrial Engineering (M.I.E.)
Industrial Engineering

Master of Mechanical Engineering (M.M.E.)
Mechanical Engineering

Master of Science in Biomedical Engineering (M.S.B.E.)
Biomedical Engineering

Master of Science in Chemical Engineering (M.S.C.H.)
Chemical Engineering

Master of Science in Civil Engineering (M.S.C.E.)
Civil Engineering

Master of Science in Computer Engineering (M.S.C.P.)
Computer Engineering

Master of Science in Computer Science (M.S.C.S.)
Computer Science

Master of Science in Electrical Engineering (M.S.E.E.)
Electrical Engineering

Master of Science in Engineering (M.S.E.)
Engineering (Post Bacc)
Engineering (5 yr program)

Master of Science in Engineering Management (M.S.E.M.)
Engineering Management

Master of Science in Engineering Science (M.S.E.S.)
Engineering Science

Master of Science in Environmental Engineering (M.S.E.V.)
Environmental Engineering

Master of Science in Industrial Engineering (M.S.I.E.)
Industrial Engineering

Master of Science in Mechanical Engineering (M.S.M.E.)
Mechanical Engineering

Doctor of Philosophy (Ph.D.)
Chemical Engineering
Civil Engineering
Computer Science and Engineering
Electrical Engineering

Engineering Science
Industrial Engineering
Mechanical Engineering

Concentrations Offered:
Manufacturing Option
Biomedical and Biotechnology
Circuits, Controls, and Systems
Communications and Signal Processing
Digital Architecture & Design
Electric Power Systems
Engineering Management
Geotechnical
Interdisciplinary Transportation
Manufacturing
Manufacturing Systems
Materials
Microelectronics
Physics
Quantitative Analysis
Structures
Transportation
Water Resources
Wireless Circuits and Systems

Graduate Certificates Offered: See Graduate Certificates

COLLEGE REQUIREMENTS

General Program Requirements
The requirements for graduate degrees from the College of Engineering consist of University requirements, College requirements, and Program requirements. For University requirements refer to the Graduate Studies Policies and Procedures. College requirements are listed below. Refer to the degree program sections for other requirements.

Master’s Degree Programs
The master’s degree is awarded for advanced study beyond the baccalaureate degree within an area of specialty. The College of Engineering offers several programs leading to degrees at the master’s level. Master of Science in Designated Engineering Field - This degree is normally awarded to a Master’s graduate who holds a Bachelor’s degree in the designated field. Some programs offer this degree in two options: (1) thesis option (30 credits), and (2) non-thesis option (33 credits). Master of Science in Engineering Science - This program is designed to meet the needs who wish to pursue an interdisciplinary course of study and research. This degree is individually tailored to student needs. Some programs offer this degree in
two options: (1) thesis option (30 credits), and (2) non-thesis option (33 credits).

Master of Science in Engineering - This degree is normally awarded to a Master’s graduate who has a bachelor’s degree from a non-engineering program and has completed a prescribed series of undergraduate engineering courses. It is a thesis program. Some programs offer this degree in two options: (1) thesis option (30 credits), and (2) non-thesis option (33 credits).

Master of Designated Discipline - This degree is normally awarded to a Master’s graduate who has an undergraduate degree in the discipline and who follows an all coursework program or a project program.

Master of Engineering - This degree is normally awarded to a Master’s graduate who has an bachelor’s degree from a non-engineering program and has completed a prescribed series of undergraduate engineering courses.

Manufacturing Option - In addition, the departments of Chemical Engineering, Computer Science and Engineering, Electrical Engineering, Mechanical Engineering, and Industrial Engineering offer a Master of Science in Engineering with a Manufacturing Systems Option (consisting of an 18 hour core and 18 hours of electives). The degree is administered by the Industrial Engineering Department and is a true interdisciplinary degree with areas of Robotics, Automation, Computer Aided Design, Computer Integrated Manufacturing, Control Systems, Software Systems, Hardware Systems, and Production Systems available for emphasis. The student, upon completion of the core courses, may choose electives and concentrate within one of the above departments or may choose to acquire an in-depth knowledge in one of the above emphasis areas by making elective course choices from several departments.

College of Engineering Requirements for Master’s Degree
1. A thesis program must contain a minimum of 24 credit hours of coursework and a minimum of 6 credit hours of thesis. (If a student transfers from a thesis program to all coursework program, no thesis hours may be transferred, converted or counted toward the degree.)

2. Non-thesis program requirements vary according to department but must contain a minimum of 33 credits of approved coursework.

3. Students must maintain an overall grade point average of 3.0. No grade below “C” will be accepted in a graduate program. If a student’s average falls below 3.0, the student will be placed on probation and must obtain a directed program from the appropriate advisor, and approval by the Engineering Associate Dean for Academic Affairs, prior to continuing coursework for a degree.

4. All students are required to pass a final oral or written comprehensive examination prior to receiving the degree. These examinations are arranged and administered by the student’s department.

Five-Year Programs Leading to Bachelor and Master’s Degrees
Students who, at the end of the junior year, clearly are interested in graduate study are invited to pursue a five-year program leading simultaneously to the Bachelor of Science in Engineering or Engineering Science and Master degrees. This program offers the opportunity to take graduate courses during the fourth year and deferring senior courses to the fifth year. Students in the Five-Year Program may apply 6 credit hours of coursework, which must be approved by the Graduate Program Coordinator, to count both degrees.

Students apply for admission to this program through their advisors, who should be consulted regarding additional requirements. Several factors, which vary by Academic department, are considered for admission. However, all applicants must have a GPA of at least 3.3.

Doctoral Degree Programs
The Doctor of Philosophy degree is awarded in recognition of demonstrated scholarly competence and ability to conduct and report original and significant research. Unlike the baccalaureate and master’s degrees, the Ph.D. degree cannot be earned by an accumulation of course credits over a period of residence alone. After adequate fundamental preparation to gain competence, the student must demonstrate research capability through completion of an authoritative investigation in the chosen engineering field, culminating in a written dissertation. The dissertation must demonstrate that the student possesses the ability to reason logically, the talent for engaging in significant and original research, and the ability to organize and present conclusions in a professional manner.
Doctor of Philosophy in Designated Engineering Field - This degree is awarded to students pursuing a program in one of the following Engineering disciplines: Chemical Engineering, Civil Engineering, Computer Science and Engineering, Electrical Engineering, Industrial Engineering, and Mechanical Engineering. Students receiving this degree must demonstrate a thorough foundation in the designated discipline.

Doctor of Philosophy in Engineering Science - This program is designed to meet the needs of students who wish to pursue doctoral studies in interdisciplinary areas closely related to engineering.

College of Engineering Requirements for Doctoral Degrees

1. Supervisory Committee. An advisor will be appointed by the chair of the appropriate department or program for each student during the first semester of registration at the University of South Florida. The advisor will help determine the student’s area of research interest and will delineate preliminary course assignments. At the earliest possible date, a major professor will be appointed and a supervisory committee formed. This committee will monitor the student’s program of studies and has full responsibility for conducting the student’s qualifying examination. The Supervisory Committee consists of a minimum of five members. One member of the committee must be outside the College of Engineering. (The requirement may be waived if special reasons exist and prior approval is obtained from the Engineering Associate Dean for Academic Affairs.) A majority of the committee will be from the College of Engineering, with at least two departments of the college represented.

2. Credit Hours. A minimum of 60 hours of coursework beyond the baccalaureate degree plus a minimum of 20 hours of dissertation research is required. Total hours of credit must equal or exceed 90 hours. A minimum of 27 hours coursework in an engineering area of concentration is required. The 27 hours need not be coursework in the same department, but must focus directly upon the areas of concentration; at least 20 hours must be at the 6000 level. In addition, a minimum of 8 hours of mathematics or statistics is required. Engineering Mathematics may be approved by the committee if appropriate. Also, a minimum of 8 hours of coursework as defined by the committee outside the major area of concentration is required. Further requirements may be imposed by the candidate’s committee.

3. Learning Focus. Throughout the student’s program of study, independent learning will be emphasized. For the first time in the participant’s career, in most cases, the student will be responsible for mastering a new domain of knowledge without the aid of organized lectures and textbooks. The principal information source will be current literature. Such experience is a necessary preparation for a meaningful career in engineering and other fields where the professional must keep pace with a large, ever-changing body of knowledge.

4. Diagnostic Examination. All prospective candidates must pass a Ph.D. diagnostic examination that includes an area of mathematics and a prescribed area of concentration. This examination must be taken after the student has completed appropriate studies, usually equivalent to one year’s coursework. Students entering with a master’s degree must take this examination before the end of the first year after admission to the program.

5. Qualifying Examination. A written and oral qualifying examination, conducted by the supervisory committee, will be taken by each Ph.D. student as soon as a substantial majority of coursework is completed. Completion of this examination and the Tools of Research admits the student to candidacy.

6. Admission to Candidacy. Students must be admitted to candidacy before they register for dissertation. Before admission to candidacy, students must have: a) passed the diagnostic examination of paragraph 4; b) passed the qualifying examination of paragraph 5; c) demonstrated proficiency in written and spoken English; d) satisfied the Tools of Research requirement; e) been accepted by a department faculty member credentialed to serve as chair of the dissertation committee. It is the responsibility of the Ph.D. committee for each doctoral student to define the Tools of Research requirement. Once admitted to candidacy students must enroll for a minimum of 2 credit hours each semester of the academic year until completion of program.

7. Dissertation Research. The student must carry out an investigation resulting in an original and significant contribution to the knowledge in the field of research. The requirement of uniqueness means that the dissertation research will provide an important creative experience for the student. As the
final stage of the student’s program, the candidate must prepare a written dissertation covering the research. Students in the Ph.D. program must take an appropriate number of doctoral dissertation credits, but not less than 20 hours; the exact number is determined by department and/or individual requirements. The defense of the dissertation will conform to Graduate Studies general rules.

8. Residency. Minimum residency requirements may be satisfied by completing at the University of South Florida, beyond the master’s degree or equivalent, the following: (1) the University’s minimal requirement, or (2) 24 hours in one calendar year, or (3) 30 hours in no more than four semesters within a period of three calendar years. Any graduate work counted toward the fulfillment of the requirement for the Ph.D. degree after admission to candidacy must be accomplished within 5 calendar years.

Collaboration with Other Colleges and Departments
Advanced study and research challenges exist at the interfaces between engineering and other academic disciplines. Examples include surface physics and chemistry applied to semiconductor processing technology; semiconductor physics applied to VLSI and analog integrated circuit design, manufacture and quality control; chemical processing and its relation to chemical principles; environmental engineering and chemical identification of minute impurities; environmental and transportation engineering and its relation to public health and public administration; water resources engineering and geo-hydrology; and biomedical engineering, to name only a few. The College collaborates with other academic units of the University in research activities and selectively educates students to become proficient in such interdisciplinary fields.
College of Graduate Studies

University of South Florida
College of Graduate Studies
4202 E. Fowler Ave FAO126
Tampa, FL 33620

Web address: http://www.grad.usf.edu/

Phone: 813-974-2846
Fax: 813-974-5762
Email: n/a

College Interim Dean: Kelli McCormack Brown
Associate Dean: n/a
Graduate Coordinator: n/a

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

Mission Statement:
The mission of the Office of Graduate Studies at the University of South Florida is to exercise leadership in policy and decision-making related to graduate education; promote intellectual excellence and innovation in graduate education, research and scholarly activities, and encourage multi-disciplinary teaching and research activities among students and faculty. Graduate Studies is the administrative office charged with support for all the University Graduate programs. The Office includes Graduate Admissions, Graduate Academic Services, and a Multi-Cultural Affairs Program. In addition, Graduate Studies serves as the academic home for the Applied Behavior Analysis Program, the Cancer Biology Program and the Water Institute.

Major Research Areas:
Contact College for information.

Types of Degrees Offered:
Master of Arts (M.A.), Doctor of Philosophy (Ph.D.)

Name of Programs Offered:
Applied Behavior Analysis
Cancer Biology

Concentrations Offered:
See Program listing

Graduate Certificates Offered:
n/a

College Requirements:
n/a
Mission Statement:
The College of Marine Science (CMS) was formed during 2000 from the previous Department of Marine Science, initiated in 1967 with three founding faculty members. The Florida Board of Regents declared it a University Center of Excellent in 1978 and approved the Marine Science Ph.D. program in 1982. Staff and faculty serve students on the St. Petersburg campus, Tampa, and the other regional campuses together with their surrounding communities, espousing goals of both diversity and equal opportunity. The CMS at the University of South Florida is constituted as a graduate-level research program that forms the basis for educational opportunities at the Ph.D. and M.S. degree levels and for public service to the State of Florida. The College administratively reports to the Provost of USF.

Mission
The primary mission of the College is to conduct basic and applied research in ocean science. Here, ocean science is defined by application of the traditional fields of science to both the biology, chemistry, geology, and physics of the marine environment and to the interactions between the marine environment and the adjoining atmosphere and land systems – presently and throughout earth’s history. Included in the primary ocean science mission is the development of new technologies and tools for exploring the coupled ocean-atmosphere-land systems. The College expects its faculty to develop research programs of outstanding caliber and to fully engage the national and international scientific communities, through the reporting of research results in the most respected oral and written venues, and by professional service. Integral to the ocean science research mission is the education of graduate students.

The College recruits, trains, and graduates productive, creative scientists at the Ph.D. and M.S. levels that are prepared to make independent contributions to ocean science. The faculty are expected to develop outstanding graduate education programs that will afford students the opportunity to participate in all aspects of research. The College recognizes that graduate education requires strong mentoring along with traditional classroom instruction. An ancillary but important mission of the College is education outreach for students at all levels and for the public at large. Our outreach programs have significantly expanded our educational responsibilities, and they are intended to motivate all generations to become scientifically literate citizens and to understand the environment in which they live.

The College pursues innovative avenues for educational outreach. Efforts are made to attract more junior and senior level undergraduates into both the ocean science core courses and into advanced courses for which they have pre-requisites. Historically, this is a way in which students have made career decisions to engage in ocean science. In this manner the College maintains close ties with the student body in other University of South Florida Colleges and campuses.

The College of Marine Science’s specialized laboratories include those for trace metal analysis, water quality, organic and isotope geochemistry, physical chemistry, optical oceanography, satellite imagery, sedimentology, geophysics, physical oceanography, micropaleontology, physiology, benthic ecology, microbiology, planktology, and ichthyology. The College has a large flume facility and laser Doppler velocimeter for interdisciplinary boundary layer studies. It is often the case that a student's research is primarily conducted at sea. Bayboro Harbor can accommodate any ship in the fleet of the U.S. oceanographic vessels, and is homeport to the principal vessels operated by the Florida Institute of Oceanography for the entire State University System. Marine science students
frequently participate in Gulf of Mexico cruises on either of two FIO vessels, the R/V Suncoaster (110ft) and the R/V Bellows (71ft). Ship time on other vessels in the U.S. fleet of oceanographic vessels, as well as foreign research vessels, is generally obtained through federal funding. Over the past decade, the College's students and faculty have conducted research in the Antarctic, Atlantic, Indian, and Pacific Oceans, as well as the Norwegian, Bering, and Caribbean Seas.

**Major Research Areas:**
Refer to College Information above.

**Types of Degrees Offered:**
Master of Science (M.S.), Doctor of Philosophy (Ph.D.)

**Name of Programs Offered:**
- **Master of Science M.S.**
  - Biological Oceanography
  - Chemical Oceanography
  - Geological Oceanography
  - Physical Oceanography

- **Doctor of Philosophy Ph.D.**
  - Biological Oceanography
  - Chemical Oceanography
  - Geological Oceanography
  - Physical Oceanography

**Concentrations Offered:**
- Biological Oceanography (M.S., Ph.D.)
- Chemical Oceanography (M.S., Ph.D.)
- Geological Oceanography (M.S., Ph.D.)
- Physical Oceanography (M.S., Ph.D.)
- Interdisciplinary

**Graduate Certificates Offered:**
n/a

**College Requirements:**
Refer to College website for information
University of South Florida  
College of Medicine  
12901 Bruce B. Downs Blvd. MDC40  
Tampa, FL  33612-4799  

Web address:  
http://catalog.grad.usf.edu/current/college_medicine.asp  

Phone:  813-974-4181  
Fax:  813-974-4317  
Email:  schapman@hsc.usf.edu  

College Interim Dean:  Robert J. Belsole  
Associate Dean:  Joseph Krzanowski  
Graduate Coordinator:  Joseph Krzanowski  

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

Mission Statement:  
The College of Medicine Graduate Faculty consist of scientists who conduct research in many fields of science basic to understanding disease processes and to the development of improved methods of diagnosis, treatment and prevention of disease. Students receive their research training in up-to-date methods of scientific investigation and gain experience in modern well-equipped laboratories. The faculty is dedicated to providing high quality education in an environment conducive to scholarly activity and scientific achievement. The Graduate Faculty of the College of Medicine consists of scientists who conduct research in many fields of science basic to understanding disease processes and to the development of improved methods of diagnosis, treatment and prevention of disease. Students receive their research training in up-to-date methods of scientific investigation and gain experience in modern well-equipped laboratories. The faculty is dedicated to providing high quality education in an environment conducive to scholarly activity and scientific achievement. Financial Aid - A limited number of assistantships, fellowships, and tuition waivers are available for graduate students. Applicants seeking support should contact the chairperson of the department to which they are applying.  

Major Research Areas:  
Contact College for information.  

Types of Degrees Offered:  
Master of Science in Medical Sciences (M.S.M.S.)  
Master of Science in Physical Therapy (M.S.P.T.)  
Doctor of Philosophy (Ph.D.)  

Name of Programs Offered:  
Master of Science in Med. Sciences (M.S.M.S)*  
Medical Sciences - *Offered as part of the Ph.D. Program  

Doctor of Philosophy (Ph.D.)  
Medical Sciences  

Concentrations Offered:  
Anatomy (MSMS and Ph.D.)  
Biochemistry (MSMS and Ph.D.) – http://biochem.usf.edu  
Medical Microbiology & Immunology (MSMS and Ph.D.) - http://hsc.usf.edu/medicine/medmicro  
Multidisciplinary Biomedical Sciences (Ph.D.) – http://www.med.usf.edu/PHD/  
Neuroscience (Ph.D.) – http://www.med.usf.edu/PHD/NEURO/neruo.html  
Pathology & Laboratory Medicine (Ph.D.)  
Pharmacology & Therapeutics (MSMS and Ph.D.)  
Physiology & Biophysics (Ph.D.) link to http://www.hsc.usf.edu/medicine/physiology/  

Graduate Certificates Offered: n/a  

College Requirements:  
Refer to College for information.
College of Nursing

University of South Florida
College of Nursing
12901 Bruce B. Downs Blvd. MDC022
Tampa, FL  33620

Web address:
http://hsc.usf.edu/nocms/nursing/index.html

Phone: 813-974-2191
Fax: 813-974-5418
Email: bvenerio@hsc.usf.edu

College Dean: Patricia Burns
Associate Dean: Judith Karshmer
Graduate Coordinator: Lois Gonzalez

Accreditation:

Mission Statement:
The College of Nursing is committed to the improvement of nursing and health care services through its educational programs, community service, and related research activities. The College of Nursing limits enrollment on the basis of availability of sufficient qualified faculty, laboratory and classroom facilities, and clinical resources for nursing practice experience for students. Florida residents are given priority. Applications from all qualified applicants are accepted without regard to age, sex, cultural, racial, religious, or ethnic background.

Major Research Areas:
Research opportunities include: Quality of Life/ End of Life; Women, Children, Families and Communities; Health and Services Research, Interdisciplinary Mental Health, and Patient Safety.

Types of Degrees Offered:
Master of Science (M.S.), Doctor of Philosophy (Ph.D.), Joint Master’s Degree in Nurse-Midwifery; Dual Degree M.S./M.P.H. in Occupational Health Nursing/Adult Nurse Practitioner

Name of Programs Offered:
Nursing

Concentrations Offered:
Adult Health Nursing
Child Health Nursing
Acute Care Nursing
Family Health Nursing
Gerontological Nursing
Occupational Health Nursing
Oncology Nursing
Psychiatric-Mental Health Nursing
Gero-Psychiatric Nursing
Health Care Systems Leadership and Informatics in Nursing
Nursing Education

Graduate Certificates Offered:
n/a

COLLEGE REQUIREMENTS

For specific degree requirements for the M.S. and Ph.D. programs in Nursing, refer to the Nursing Program Information. Information on other options is available below.

Post-Master’s Nurse Practitioner Advanced Certificate

Admission to this certificate program is through the Office of Student Affairs of the College of Nursing (813) 974-9305. Certificate Program Prerequisites / or Equivalents include:
NGR 6140 Pathophysiology
NGR 6001 Advanced Health Assessment
NGR 6199 Advanced Pharmacology
NGR 6135 Ethical, Legal and Health Policy Issues

Students may obtain a Post-Master’s Certificate in the following clinical areas: Adult Health, Child Health, Psych/Mental Health, Oncology Nursing, or Substance Abuse Nursing. The credit hours will vary depending on the area of specialization.

Registered Nurse to Master’s Degree Program (RN to MS)
The RN/MS option is designed for registered nurses who have earned a baccalaureate degree in another discipline. These students may be eligible for admission to the master’s program in nursing. The student must also complete the following courses at
the undergraduate level before admission to the Master’s program: statistics, research, health assessment, community health theory and community health clinical practice. Contact the Office of Student Affairs in the College of Nursing for more information at (813) 974-9305.

Associate Degree in Nursing to Master’s Degree (ADN to MS)
The ADN/MS option allows the Associate Degree in Nursing prepared nurse the opportunity to earn preparation as an advanced registered nurse practitioner. This curriculum will combine learning opportunities and allow an ADN graduate currently studying in the baccalaureate program to apply for early enrollment in the Master’s of Science in nursing program. Admission to this option begins with an undergraduate component and admission to the baccalaureate program. Students will complete 18 credit hours of coursework in the baccalaureate program. The student must then complete the GRE and the process for graduate school admission. With admission to the Graduate School and the graduate program in nursing, the student will complete the credit hours required for the program and selected specialization in the M.S. in Nursing. Contact the Office of Student Affairs in the College of Nursing for more information (813) 974-9305.

PROGRESSION POLICY
USF College of Nursing

Progression Policy
To Be Effective Fall 2004 And Apply To All Graduate Students (Current and New)

Graduate students must earn the grade of B or higher (B minus is not acceptable) in each required course in their respective nursing program. Graduate students must also maintain an overall average of 3.0 (B) in order to be considered to be “in good standing.” Students also must meet any special conditions of their admissions. No grade below C will be accepted toward a graduate degree. All grades will be counted in computing the overall grade point average. Students must have an overall GPA of 3.0 at the completion of their respective program, or they will not be awarded a degree from the University of South Florida.

If a student earns a grade below a B in a required course, she/he must repeat the course. The course must be taken in the next semester that it is offered and the student must earn a B or higher. Any student, who earns below a B in two or more required courses or earns below a B in a required course twice, will be dismissed from the College. The Dean of the College of Nursing, or her designee (Associate Dean of Academic Affairs or the Associate Dean of Doctoral Studies), will notify students who are dismissed, in writing.

Clinical Performance
Patient safety and welfare are the most critical criteria of the clinical rotation. If at any time during the clinical rotation the student places the patient in an actual or potentially hazardous or unsafe situation or the faculty judges the student to be deficient in clinical competence for patient care responsibility, the student will fail the course regardless of previous clinical performance. Students who receive an unsatisfactory grade for their clinical performance may be dismissed from the program, regardless of academic standing in other classes.

Human Research Conduct
The protection of the rights of human subjects is the most critical criteria of any research study involving human subjects. If at any time during the conduction of a human subject study, a student violates the rights of the participants, the study will be stopped. Permission to continue with the study will be dependent upon an investigation by the University of South Florida Institutional Review Board, the student’s research advisor and the Dean of the College of Nursing.

Progression Process
Any student who is not in good standing at the end of a semester shall be placed on probation. The College may also place students on probation for other reasons as designated. The Associate Dean of Academic Affairs shall make notification of probation in writing to the student, the student’s program director, and the Student Affairs Committee. The student shall meet with their program director to develop a Probation Plan detailing the plan for removal of probationary status. The Associate Dean of Academic Affairs shall approve the Plan. A copy of the approved Plan will be given to the student and their program director; a written copy will also be placed in the student’s academic record.

At the end of the probationary semester, the program director shall review the student’s progress and compliance with the Probationary Plan, and recommend to the Student Affairs Committee one of the three alternatives: (1) Removal of probation, (2) Continued probation and continuance of the
Probation Plan, and (3) Dismissal from the degree program. The Student Affairs committee shall make a recommendation, in writing, to the Associate Dean of Academic Affairs. The Associate Dean shall notify the student in writing of their academic status.

The Dean of Graduate Studies, upon recommendation by the Dean of the student’s College, may dismiss the student from a degree-seeking status after one semester of probation. The inability of a Veteran Student to achieve a passing cumulative GPA after two semesters of probationary status will result in termination.

Approved at March 2003 Faculty Council.
Approved December 15, 2003 Graduate Council
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College of Public Health

University of South Florida
College of Public Health
13201 Bruce B. Downs Blvd MDC056
Tampa, FL  33612

Web address:  http://www.hsc.usf.edu/publichealth/

Phone:  813-974-3623
Fax:  813-974-8121
Email:  advisor@hsc.usf.edu

Interim College Dean:  Stanley Graven, M.D.
Interim Associate Dean:  Karen Liller
Graduate Coordinator:  Karen Liller

Accreditation:
The Commission on Colleges of the Southern Association of College and Schools. The College is fully accredited by the Council on Education for Public Health and the MSHP in Industrial Hygiene is accredited by the Accreditation Commission of the Accreditation Board for Engineering and Technology.

Mission Statement:
The College of Public Health's mission is to promote public health through research, education and service. Goals include building strong focused research programs that reward and encourage scholarship and creative activities, continual improvement of academic programs and student centered learning, a college culture that supports our mission, vision, and values, a strong sustainable infrastructure, and active service and meaningful community engagement.

The base of knowledge for public health comes from a variety of disciplines, ranging from social sciences to biological and business, brought together by a commitment to improve the public's health. Thus, the field is open to students from diverse academic disciplines including Health Sciences, Education, Business, Communication, Mathematics, Social and Natural Sciences. Graduates are prepared for interdisciplinary focused public health careers as administrators, managers, educators, researchers, and direct service providers.

The College's four departments are: Community and Family Health, Environmental and Occupational Health, Epidemiology and Biostatistics, and Health Policy and Management. In addition, there are two college-wise programs: Public Health Practice and Global Health.

Core content is directly related to addressing and meeting public health issues. Off campus programs may reflect additional offerings to meet specific needs. The College accommodates the working professional as well as the full-time student by offering late afternoon and evening classes and state-of-the-art distance learning through satellite delivery at numerous sites throughout the state and selected U.S. and international sites, web delivery of courses and graduate certificates, and a weekend MPH for experienced health professionals.

The College hosts several College and Departmental based centers that augment the learning opportunities for students, including Center for Biological Defense, Center for Health, HIV/AIDS Research, and Training in India, Center for Leadership in Public Health Practice, Center for Positive Health, the Florida Health Information Center, the Global Center for Disaster Management and Humanitarian Action, The James and Jennifer Harrell Center for the Study of Domestic Violence, and the Lawton and Rhea Chiles Center for Healthy Mothers and Babies.

Major Research Areas:
Faculty major research areas are quite varied and may be viewed on-line at http://publichealth.usf.edu/facultyaffaris.facultyprofile.html

Types of Degrees Offered:
Master of Health Administration (M.H.A.)
Master of Public Health (M.P.H.)
Master of Science in Public Health (M.S.P.H.)
Doctor of Philosophy (Ph.D.)

Name of Programs Offered:
Master of Health Administration - M.H.A
Master of Public Health - M.P.H.
Master of Science in Public Health - M.S.P.H.
Doctor of Philosophy - Ph.D.

Dual Degrees offered in:
Public Health and Anthropology (M.P.H./M.A. or Ph.D.)

Public Health and Medicine (M.P.H./M.D.) for already enrolled USF College of Medicine students.
Public Health and Social Work (M.P.H./M.S.W.)
Public Health (Occupational Health) and Nursing/Adult Nurse Practitioner (M.P.H./M.S.)
Public Health and Biochemistry/Molecular Biology (M.P.H./Ph.D.)

Concentrations Offered:
- Accelerated Health Education (M.P.H.)
- Behavioral Health (Ph.D.)
- Biostatistics (M.P.H., M.S.P.H., Ph.D.)
- Community and Family Health (Ph.D.)
- Environmental and Occupational Health (Ph.D.)
- Environmental Health (M.P.H., M.S.P.H.)
- Epidemiology (M.P.H., M.S.P.H., Ph.D.)
- Epidemiology and Biostatistics (Ph.D.)
- Executive Program for Health Professionals (M.S.P.H.)
- Executive Program for MBA Physicians (M.P.H.) - Not Active
- Global Health (M.P.H.)
- Health Care Organizations and Management (M.P.H., M.S.P.H., Ph.D.)
- Health Policies and Programs (M.P.H., M.S.P.H., Ph.D.)
- Health Policy and Management (Ph.D.)
- Industrial Hygiene (M.S.P.H., Ph.D.)
- International Health Management (M.P.H., M.S.P.H., Ph.D.)
- Managed Care (M.P.H.)
- Maternal and Child Health (M.P.H., M.S.P.H., Ph.D.)
- Occupational Health (M.S.P.H., Ph.D.)
- Occupational Health for Health Professionals (Ph.D.)
- Occupational Medicine Residency (M.S.P.H., Ph.D.)
- Public Health Education (M.S.P.H., Ph.D.)
- *Public Health Practice Program (distance learning) (M.P.H.)*
- Social and Behavioral Science (M.S.P.H., Ph.D.)
- Toxicology (M.P.H., M.S.P.H., Ph.D.)
- Tropical/Communicable Diseases (M.P.H., M.S.P.H., Ph.D.)

*PLEASE NOTE: the MPH in Public Health Practice has an entry requirement of a minimum of three years of experience. It is offered if a distance learning format, a traditional format, as well as weekend MPH.

Graduate Certificates Offered: n/a

COLLEGE REQUIREMENTS

Attendance Policy
It is the policy of the College of Public Health that a student will not be automatically dropped if they do not attend the first class of each semester. However, it is the responsibility of the student to notify the course instructor if they cannot attend the first class.

Degree Requirements: a detailed description of each degree and its requirements can be found on the website listed.

Master of Health Administration (MHA):
http://publichealth.usf.edu/mha.html
All MHA students are required to successfully complete:

- Five college core courses - 15 credits:
  - Biostatistics I, Epidemiology, Principles of Health Policy and Management; Environmental and Occupational Health, and Social and Behavioral Sciences Applied to Health Management and policy courses - 18 credits
  - Finance, Economic and Quantitative Courses - 13 credits
  - Capstone Course - 2 (substitutes for comprehensive examination)
  - Field Experience - 1 - 6 credits
  - Special Projects - 3 credits

Master of Public Health (MPH):
http://publichealth.usf.edu/mph.html
All MPH students are required to successfully complete:

- Five college core courses - 15 credits:
  - Biostatistics I, Epidemiology, Principles of Health Policy and Management; Environmental and Occupational Health, and Social and Behavioral Sciences Applied to Health Concentration courses in specialty areas - 12 credit minimum, depending on department requirements
  - Comprehensive Exam and/or capstone course
  - Field Experience - 1 - 12 credits
  - Special Projects - 3 credits
  - Electives (variable)

Master of Science in Public Health (MSPH):
http://publichealth.usf.edu/msph.html
All MSPH students are required to successfully complete:

- 9 credits of college core courses including Biostatistics I and Epidemiology, plus one other core courses approved by the academic advisor (select from
Principles of Health Policy and Management, Environmental Sciences Applied to Health
Bio Statistics II
Courses in specialty areas as designated by advisory committee - 12 credits minimum, as determined by department
Research Methods as determined by advisory committee
Comprehensive Exam while enrolled for a minimum of 2 credits
Thesis for a minimum of 6 credits
Electives (variable)

**Doctor of Philosophy (PhD):**
[http://publichealth.usf.edu/phd.html](http://publichealth.usf.edu/phd.html)

The Doctor of Philosophy (PhD) is granted in recognition of high attainment in a specified field of knowledge. It is a research degree and is not conferred solely upon the earning of credit or the completion of courses. It is granted after the student has shown proficiency and distinctive achievement in specific field, has demonstrated the ability to do original, independent investigation, and has presented these findings with a high degree of literacy skill in dissertation. This degree requires a minimum of 90 credits beyond the baccalaureate degree. Doctoral program leading to Ph.D. are offered in all four departments and the five core areas of public health. Students have an opportunity to specialize within their department.

The following is an excerpt from the COPH Catalog and is located at [http://publichealth.usf.edu/phd.html](http://publichealth.usf.edu/phd.html)

Each department has written specific guidelines. Students and their major advisor jointly create a written plan to meet these competencies via plan of study, research experience, departmental and professional activities, and other appropriate methods.

**PhD course of Study**
The student's course of study will include the following:

**Prerequisites:**
A minimum of Biostatistics I, Epidemiology, and one other selected college core courses are required by all students who do not have a master's degree in public health. The doctoral committee or the department may require other prerequisites. These courses are not included in the minimum number of hours a student needs to complete the PhD and are expected to be completed early in the course of study.

**Required Coursework:**
The courses and number of credit hours required are defined by the department and the doctoral committee and include coursework from another department or college. There must be minimum of 13 credits at the 7000 level. Generally, the doctoral degree requires a minimum of 90 credits beyond the bachelor's degree. Departments determine the number of credits accepted from previous master(s) degree. All doctoral students take a minimum of three semesters (one credit each semester) of college wide Advanced Interdisciplinary Seminar in Public Health (PHC 7931).

**Tools of Research:**
Departmental Guidelines will address whether they are required for doctoral students within that department (consistency within the department required). The student must complete a minimum of two of the "Tools of Research" options designated by the department, and approved by the doctoral committee before the student is eligible to take the doctoral qualifying examination.

**Teaching:**
All doctoral students will demonstrate or document proficiency in teaching academic courses at the university level.

**Qualifying Exam:**
When all required coursework is satisfactorily completed (including tools of research and prerequisites), the student must pass a written comprehensive qualifying examination covering the subject matter in the major and related fields.

**Dissertation:**
All students must follow the University's "Guidelines for Dissertations and Theses."

**Other information:**
**Comprehensive Examination (MHA, MPH, MSPH)**
The Comprehensive Examination is a requirement for all students seeking an M.P.H. or M.S.P.H. degree in the College of Public Health. (A capstone course substitutes for the comprehensive examination for the MHA degree.)

The comprehensive examination will focus on the student's concentration and the core public health courses. See the college academic affairs website: [http://publichealth.usf.edu/academicaffairs/](http://publichealth.usf.edu/academicaffairs/). Each department has detailed written guidelines as well which are listed on department websites. Additional
Field Experience (MHA, MPH, and the MSPH in Public Health with a concentration in Industrial Hygiene)
All M.P.H. and MHA students are required to complete a field experience. The type and length of the field experience. Each department has written guidelines and a field experience website is available to assist students in this portion of their program at http://publichealth.usf.edu/academicaffairs/fe/

Special Project
The special project is an in-depth study of a selected issue in public health. A topic will be selected according to student's needs and interests.

Thesis (MSPH)
MSPH students MUST complete a Thesis.

Graduate Assistantships
Graduate assistants may perform research, teaching functions, assist in the production seminars and workshops, or other work related to their specific disciplines. Graduate assistants are paid biweekly stipend and may qualify to receive in-state tuition waivers. Assistantships are awarded on a competitive basis. Students must have a GPA of 3.0 or better in their upper division coursework, must be degree-seeking and enrolled full time. Positions are posted at http://publichealth.usf.edu/jobpostings.html

Scholarships and Aid
Sources of aid are limited to degree-seeking students only and include the following which are detailed at http://www.publichealth.usf.edu/FinAid.html
Several named fellowships and scholarships, Florida Environmental Health Association Scholarship, Florida Public Health Association Scholarship, Maternal and Child Health Traineeships and Maternal Traineeships, among others by the University.

Certificate Programs: (for information click on the graduate certificates at http://www.outreach.usf.edu/gradcerts/)
Clinical Epidemiology
Disaster Management
Health Management and Leadership
Safety Management
Infection Control
College of Visual and Performing Arts

University of South Florida
College of Visual and Performing Arts
4202 E. Fowler Ave FAH110
Tampa, FL  33620

Web address: http://www.arts.usf.edu/

Phone: 813-974-2301
Fax: n/a
Email: n/a

College Dean: Ron Jones
Associate Dean: Barton Lee
Graduate Coordinator: Barton Lee

Accreditation:
The Commission on Colleges of the Southern Association of Colleges.

Mission Statement:
The College of Visual and Performing Arts is a distinguished center for learning and research in the arts, preparing tomorrow’s artists, scholars and leaders in the arts through the creation and study of new forms of artistic expression, analysis and pedagogy. The College offers contemporary perspectives in the arts within the context of a dynamic, urban research university setting characterized by its artistic and cultural diversity. It plays a critical role in the cultural vitality of the Tampa Bay region and engages with local, national and international communities in arts initiatives.

In recognition of its academic and artistic achievements, the College has been given the program-of-emphasis status by the State University System. The College offers graduate degree programs in art, art history, music, music education, and theatre, as well as graduate certificates and advanced graduate certificates.

Major Research Areas:
Contact College for information.

Types of Degrees Offered:
Master of Arts (M.A.), Master of Fine Arts (M.F.A.), Master of Music (M.M.), Doctor of Philosophy (Ph.D.)

Name of Programs Offered:
Master of Arts (M.A.)
Art History
Music Education

Master of Fine Arts M.F.A.
Art
Dramatic Writing (Theatre) – Not Active

Master of Music M.M.
Music

Doctor of Philosophy Ph.D.
Music

Concentrations Offered:
Composition
Conducting (Choral and Instrumental)
Jazz Composition
Jazz Performance
Music Performance
Performance
Piano Pedagogy
Theory

Graduate Certificates Offered: See Graduate Certificates

COLLEGE REQUIREMENTS

College Activities and Events
The College of Visual and Performing Arts arranges a full schedule of concerts, plays, lectures, exhibitions, and workshops featuring students, faculty, and visiting artists/scholars. Events are open to the general public and are presented both during the day and in the evening. Special ticket privileges are available to USF students. For more information, contact the CVPA Events Office. Refer to the College website for more information.
St. Petersburg - College of Arts and Sciences

University of South Florida  
St. Petersburg - College of Arts and Sciences  
140 Seventh Avenue S  
St. Petersburg, FL 33701

Web address: n/a
Phone: 727-553-4156  
Fax: 727-553-4526  
Email: cas@stpt.usf.edu

College Dean: V. Mark Durand  
Associate Dean: n/a  
Graduate Coordinator: n/a

Accreditation:  
Contact College for Information.

Mission Statement:  
The faculty of the College of Arts and Sciences at USF St. Petersburg devotes itself to leading students and the broader community to understand the social and physical environment of the past, the present and the future. Our mission consists in teaching people to think critically by analyzing and synthesizing ideas and information throughout a wide spectrum of disciplines that range from the literacy to the scientific. The college seeks to understand and establish connections among diverse disciplines, cultures, and peoples.

Its members, including faculty, staff and students, seek to nurture learning both within and beyond the classroom in time and space. They do so by acquiring and extending knowledge by honing skills that will serve them and their society throughout their lives: the ability to research, reason, read, and write. By learning how to learn, our students will provide the intellectual capital needed by society now and in the future.

Major Research Areas:  
See individual departments.

Types of Degrees Offered:  
Master of Arts (M.A.), Master of Liberal Arts (M.L.A.)

Name of Programs Offered:  
Master of Arts (M.A.) Mass Communications  
(concentration in Journalism Studies)  
Master of Liberal Arts (M.L.A.)  
Liberal Arts (Concentration in Florida Studies)

Concentrations Offered:  
Journalism Studies, Florida Studies

Graduate Certificates Offered:  
n/a

College Requirements:  
n/a
St. Petersburg - College of Business

University of South Florida
St. Petersburg - College of Business
140 Seventh Avenue S
St. Petersburg, FL 33701

Web address: n/a
Phone: 727-553-4MBA
Fax: 727-553-4192
Email: mba@stpt.usf.edu

College Dean: n/a
Associate Dean: R. Mark Wilson
Graduate Coordinator: Jeannie Gaines

Accreditation:
The M.B.A. in the College of Business is accredited by the American Assembly of Collegiate Schools of Business (AACSB)

Mission Statement:
In the College of Business Administration, graduate programs are designed to make graduate level professional education available to qualified persons who seek managerial and professional positions in business, government, or education. Programs support research activity so vitally necessary to maintain a quality graduate faculty and program, as well as foster the independent, innovative thinking and action appropriate to a professional individual.

Major Research Areas:
See individual departments.

Types of Degrees Offered:
Master of Business Administration (M.B.A.)

Name of Programs Offered:
Master of Business Administration (M.B.A.) - part-time

Concentrations Offered:
n/a

Graduate Certificates Offered:
n/a

COLLEGE REQUIREMENTS

Non-Degree Seeking Students
The College of Business Administration will approve, on a space available basis, non-degree seeking student status only for transient students (degree-seeking students at another accredited institution) or for students with valid reasons to register in this status and who meet all admission requirements.
St. Petersburg - College of Education

University of South Florida
St. Petersburg - College of Education
140 Seventh Avenue S
St. Petersburg, FL  33701

Web address:  n/a
Phone:  727-553-4155
Fax:  727-553-4191
Email:  n/a

College Dean:  Vivian Fueyo
Associate Dean:  Stephen Micklo
Graduate Coordinator:  n/a

Accreditation:
Contact College for Information.

Mission Statement:
The USF St. Petersburg College of Education is dedicated to preparing highly qualified educators from diverse backgrounds to lead the continuing reinvention of schools, meeting the needs of learners in a changing society and creating and extending knowledge related to education by engaging in scholarly research with regional, state, national and international implications.

Major Research Areas:
See individual departments.

Types of Degrees Offered:
Master of Arts (M.A.)

Name of Programs Offered:
Master of Arts (M.A.)

Concentrations Offered:
n/a

Graduate Certificates Offered:
n/a

College Requirements:
Contact college for information.

n/a
Programs, Degrees and Certificates Offered

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

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

Alphabetical List of Programs

Business Administration at St. Petersburg (M.B.A.)
Business and Office Education (M.A.)
Business Economics (M.A.)
Cancer biology (Ph.D.)
Career and Technical Education (M.A.)
Chemical Engineering (M.Ch.E., M.E., M.S.Ch.E, M.S.E.S., Ph.D.)
Chemistry (M.A., M.S., Ph.D.)
Civil Engineering (M.C.E., M.E., M.S.C.E., M.S.E.S., Ph.D.)
Classics (M.A. – Co-op Program with Univ. Fl.)
Communication (M.A., Ph.D.)
Communication Sciences and Disorders (Ph.D.)
Computer Science and Engineering (M.C.P., M.E., M.S.C.P., M.S.E.S., M.C.S., M.S.C.S., Ph.D.)
Criminology (M.A., Ph.D.)
Curriculum and Instruction (M.Ed., Ed.S., Ph.D.)

Distributive and Marketing Education (M.A.) (Not accepting students, see Career and Technical Ed.)
Dramatic Writing (M.F.A.) (Not accepting students)
Early Childhood Education (M.A.)
Educational Leadership (M.Ed., Ed.S., Ed.D.)
Educational Leadership at St. Petersburg (M.Ed., Ed.S., Ph.D.)
Educational Program Development (Ed.D.)
Electrical Engineering
Elementary Education (M.A., M.A.T.)
Elementary Education at St. Petersburg (M.A.)
Environmental Science and Policy (M.S.)
Executive MBA (M.B.A.)
Executive MBA for Physicians (M.B.A.) (Currently not accepting students)

Foreign Language Education (M.A., M.A.T.)
French (M.A.)
Geography (M.A.)
Geology (M.S.)
Gerontology (Ph.D.)
Guidance and Counselor Education (M.A.)
Health Administration (M.H.A.)
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<tr>
<th>Program</th>
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<tr>
<td>History (M.A.)</td>
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<tr>
<td>Industrial Engineering (M.E., M.I.E., M.S.E.S., M.S.I.E., Ph.D.)</td>
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<tr>
<td>JR College Teaching (M.A.)</td>
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<tr>
<td>Latin American Caribbean and Latin Studies (M.A.)</td>
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<tr>
<td>Liberal arts (M.L.A.)</td>
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<tr>
<td>Liberal Arts at St. Petersburg (M.L.A.)</td>
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<tr>
<td>Library and Information Science (M.A.)</td>
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<td>Linguistics (M.A.)</td>
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<td>Linguistics English as a Second Language (M.A.)</td>
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<td>Management (M.S.)</td>
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<td>Management Information Systems (M.S.)</td>
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<tr>
<td>Marine science (M.S., Ph.D.)</td>
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<td>Mass communications (M.A.)</td>
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<td>Mass Communications at St. Petersburg (M.A.)</td>
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<tr>
<td>Mathematics (M.A., Ph.D.)</td>
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<td>Mathematics Education (M.A., M.A.T.)</td>
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<tr>
<td>Mechanical Engineering (M.E., M.M.E., M.S.E.S., M.S.M.E., Ph.D.)</td>
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<td>Medical Sciences (M.S.M.S., Ph.D.)</td>
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<td>Microbiology (M.S.)</td>
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<td>Music (M.M., Ph.D.)</td>
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<td>Music Education (M.A.)</td>
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<td>Nursing (M.S.)</td>
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<td>Nursing Science (Ph.D.)</td>
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<td>Philosophy (M.A., Ph.D.)</td>
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<td>Physical Education (M.A.)</td>
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<td>Physical Therapy (M.S.P.T.)</td>
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<td>Physics (M.S., Ph.D.)</td>
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<td>Plan III</td>
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<td>Political Science (M.A.)</td>
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<td>Psychology (M.A., Ph.D.)</td>
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<td>Public Administration (M.P.A.)</td>
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<td>Public Health (M.P.H., M.S.P.H., Ph.D.)</td>
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<td>Reading Education (M.A.)</td>
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<td>Reading Education at St. Petersburg (M.A.)</td>
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<tr>
<td>Rehabilitation and Mental Health Counseling (M.A.)</td>
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<td>Religious Studies (M.A.)</td>
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<tr>
<td>Saturday MBA – (M.B.A.) (Not accepting students)</td>
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<tr>
<td>School Psychology (M.A., Ph.D.)</td>
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<td>Science Education (M.A., M.A.T.)</td>
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<tr>
<td>Second Language Acquisition and Instructional Technology (Ph.D.)</td>
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<tr>
<td>Social Science Education (M.A., M.A.T.)</td>
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<td>Social work (M.S.W.)</td>
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<tr>
<td>Sociology (M.A.)</td>
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<tr>
<td>Spanish (M.A.)</td>
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<td>Special Education, Behavior Disorders (M.A.)</td>
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<td>Special Education, Gifted (M.A.)</td>
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<td>Special Education, Mental Retardation (M.A.)</td>
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<td>Special Education, Motor Disabilities (M.A.)</td>
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<td>Special Education, Specific Learning Disabilities (M.A.)</td>
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<tr>
<td>Special Education, Varying Exceptionalities (M.A., M.A.T.)</td>
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<tr>
<td>Speech Language Pathology (M.S.)</td>
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<tr>
<td>Women's Studies (M.A.)</td>
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### List of Programs by Degree Type

**Graduate Degrees**

**Master of Accountancy - M.Acc.**

**Master of Architecture - M.Arch.**

**Master of Arts - M.A.**
- Adult Education
- American Studies
- Anthropology
- Applied Anthropology
- Applied Behavior Analysis
- Art History
- Business and Office Education
- Business Economics
- Career and Technical Education
- Chemistry (non-thesis option)
- Communication
- Criminology
- Distributive and Marketing Education
- Early Childhood Education
- Elementary Education
- English
- English Education
- Foreign Language Education
- French
- Geography
- Gerontology
- Guidance and Counselor Education
- History
- Junior College Teaching
- Latin American, Caribbean and Latino Studies
- Library and Information Science
- Linguistics
- Linguistics: English as a Second Language
- Mass Communications
- Mathematics
- Mathematics Education
- Music Education
- Philosophy
- Physical Education
- Political Science
- Psychology
- Reading Education
- Rehabilitation and Mental Health Counseling
- Religious Studies
- School Psychology
- Science Education
- Social Science Education
- Sociology
- Spanish
- Special Education, Behavior Disorders
- Special Education, Gifted
- Special Education, Mental Retardation
- Special Education, Motor Disabilities
- Special Education, Specific Learning Disabilities
- Special Education, Varying Exceptionalities
- Women’s Studies

**Master of Arts in Bioethics and Medical Humanities - M.A.B.M.H.**

**Master of Arts in Teaching (M.A.T.)**
- Elementary Education
- English Education
- Foreign Language Education
- Mathematics Education
- Science Education
- Social Science Education
- Special Education, Varying Exceptionalities

**Master of Business Administration - M.B.A.**
- Business Administration (General Program, Saturday MBA)
- Executive MBA
- Executive MBA for Physicians (not currently accepting applications)

**Master of Chemical Engineering - M.Ch.E.**

**Master of Civil Engineering - M.C.E.**

**Master of Computer Engineering - M.C.P.**

**Master of Computer Science - M.C.S.**

**Master of Education - M.Ed.**
- Curriculum and Instruction
- Educational Leadership

**Master of Electrical Engineering - M.E.E.**

**Master of Engineering - M.E.**
- Chemical Engineering
- Civil Engineering
- Computer Engineering
- Computer Science
- Electrical Engineering
- Environmental Engineering
- Industrial Engineering
- Mechanical Engineering

**Master of Environmental Engineering - M.E.V.E**

**Master of Fine Arts - M.F.A.**
- Art
Dramatic Writing - (Not accepting students)

Master of Health Administration - M.H.A.
Master of Industrial Engineering - M.I.E.
Master of Liberal Arts - M.L.A.
Master of Mechanical Engineering - M.M.E.
Master of Music - M.M.
Master of Public Administration - M.P.A.
Master of Public Health - M.P.H.

Master of Science - M.S.
  o Audiology
  o Aural (Re)Habilitation
  o Biology
  o Chemistry
  o Environmental Science and Policy
  o Geology
  o Management
  o Management Information Systems
  o Marine Science
  o Microbiology
  o Nursing
  o Physics
  o Speech-Language Pathology (Post. Bacc.)

Master of Science in Bioinformatics and Computational Biology - M.S.B.C.B.

Master of Science in Biomedical Engineering - M.S.B.E.

Master of Science in Chemical Engineering - M.S.Ch.E.

Master of Science in Civil Engineering - M.S.C.E.

Master of Science in Computer Engineering - M.S.C.P.

Master of Science in Computer Science - M.S.C.S.

Master of Science in Electrical Engineering - M.S.E.E.

Master of Science in Engineering - M.S.E.
Master of Science in Engineering Management - M.S.E.M.
Master of Science in Engineering Science - M.S.E.S.
  o Biomedical Engineering

Master of Science in Environmental Engineering - M.S.E.V

Master of Science in Industrial Engineering - M.S.I.E.

Master of Science in Mechanical Engineering - M.S.M.E.

Master of Science in Medical Sciences - M.S.M.S.

Master of Science in Physical Therapy – M.S.P.T.

Master of Science in Public Health - M.S.P.H.

Master of Social Work - M.S.W.

Advanced Graduate Degrees
Education Specialist - Ed.S.
  Educational Leadership
  Curriculum and Instruction

Doctor of Audiology - Au.D.

Doctor of Education - Ed.D.
  Educational Leadership
  Educational Program Development

Doctor of Philosophy - Ph.D.
  Aging Studies
  Applied Anthropology
  Applied Physics
  Biology
  Business Administration
  Cancer Biology
  Chemical Engineering
  Chemistry
  Civil Engineering
  Communication
  Communication Sciences and Disorders
  Computer Science and Engineering
  Criminology
  Curriculum and Instruction
  Electrical Engineering
Engineering Science
English
Geology
Industrial Engineering
Marine Science
Mathematics
Mechanical Engineering
Medical Sciences
Music
Nursing Science
Philosophy
Psychology
Public Health
School Psychology
Second Language Acquisition and Instructional Technology

Professional Degree
Doctor of Medicine - M.D.
Medicine
### List of Programs by Home College

#### School of Architecture:
- Architecture

#### College of Arts and Sciences:
- Aging Studies
- American Studies
- Anthropology
- Audiology
- Aural Rehabilitation
- Biology
- Chemistry
- Classics (Co-op)
- Communication
- Communication Sciences and Disorders
- Criminology
- English
- Environmental Science and Policy
- French
- Geography
- Geology
- Gerontology
- History
- Latin American Caribbean and Latin Studies

#### College of Education:
- Adult Education
- Business and Office Education
- C&I Department Information
- Career and Technical Education
- Curriculum and Instruction
- Distributive and Marketing Education
- Early Childhood Education
- Educational Leadership
- Educational Program Development
- Elementary Education
- English Education
- Foreign Language Education
- Guidance and Counselor Education
- Jr College Teaching
- Mathematics Education
- Physical Education
- Reading Education
- School Psychology
- Science Education
- Second Language Acquisition and Instructional Technology

#### College of Graduate Studies:
- Applied Behavior Analysis
- Cancer biology

#### College of Marine Science:
- Marine Science

#### College of Medicine:
- Medical Sciences
- Physical Therapy

#### College of Nursing:
- Nursing

#### College of Public Health:
- Health Administration
- Public Health

#### College of Visual and Performing Arts:
- Art
- Art Education – inactive
- Art History
- Dramatic Writing
- Music
- Music Education

#### College of Business:
- Accountancy
- Business Administration
- Business Economics
- Executive MBA
- Executive MBA for Physicians Management
- Saturday MBA – Inactive until further notice

#### College of Engineering:
- Biomedical Engineering
- Chemical Engineering
- Civil Engineering
- Computer Science and Engineering
- Engineering
- Engineering Management
- Engineering Science
- Environmental Engineering
- Industrial Engineering
- Mechanical Engineering

#### College of Social Science:
- Social Science Education
- Special Education
# Accountancy Program
## M.Acc.

### DEGREE INFORMATION

**Type of Degree Offered:**
Master of Accountancy - M.Acc.

**Concentrations Offered:**
- Accounting Information Systems
- General Accounting
- Tax Accounting (not currently available)

**Also offered as:**
- track under Business Administration (Ph.D.)

**Program Status:** Active

### CONTACT INFORMATION

**Program Director:** William Parrott
**Other Contact:**
**Phone:** 813-974-6736
**Fax:** 813-974-6528
**Email:** wparrott@coba.usf.edu
**Web Address:** [http://www.coba.usf.edu/departments/accounting](http://www.coba.usf.edu/departments/accounting)

**Mailing Address:**
University of South Florida
School of Accountancy
Accountancy Program
4202 E. Fowler Ave, BSN3403
Tampa, FL 33620

### PROGRAM INFORMATION

The objective of the Master of Accountancy (M.Acc.) Program is to provide candidates with greater breadth and depth in accountancy than is possible in the baccalaureate program. The Master of Accountancy Program is designed to meet the increasing needs of business and government, as well as public accounting, for persons who have in-depth professional training in accounting and a background in the areas of quantitative methodology, economic analysis, finance, etc. The M.Acc. Program may also be structured to satisfy the requirements to sit for the Uniform CPA Examination in Florida.

**Accreditation:**
Accredited by the Commission on Colleges of the Southern Association of College and Schools and AACSB - International (Association to Advanced Collegiate Schools of Business)

**Major Research Areas:**
The major focus of the Ph.D. program is the application of behavioral research methods in the areas of accounting information systems auditing and financial accounting.

### ADMISSION INFORMATION

Program may have additional requirements; check before applying.

### DEGREE PROGRAM REQUIREMENTS:

For the student who has the equivalent of an undergraduate major in accounting at USF (including 27 hours of upper-level accounting coursework taken within the last 5 years), the program consists of 30 hours. Most (21 hours) of the program is devoted to the study of accounting. The remaining 9 hours consist of study in other business areas including economics, entrepreneurship, finance, and information systems/decision sciences. These 9 hours are elected by the student in consultation with the M.Acc. Advisor. At least 70% of the coursework must be at the 6000 level. M.Acc. students may select the Accounting and Assurance Track, Accounting Information Systems Track, or Tax Track.

**Accounting and Assurance Track (30 hours)**
- ACG 6346: Cost Accounting Theory 3
- ACG 6405: Accounting Systems Theory 3
- ACG 6636: Contemporary Issues in Auditing 3
- ACG 6875: Development of Accounting Thought 3
- ACG 6932: Integrative Accounting Seminar 3

Two of the following:
- ACG 5501: Governmental/Not-for-Profit Accounting 3
- ACG 5201: Advanced Financial Accounting 3
- ACG 5675: Federal Taxation of Business Entities 3
- TAX 5015: Federal Taxation of Business Entities 3
- TAX 6065: Estate Planning 3
- TAX 6445: Estate Planning 3

Other business courses: Three elective courses (9 hours) outside the field of Accountancy with advance written approval by the M.Acc. Advisor.

**Accounting Information Systems Track (30 hours)**
- ACG 6405: Accounting Systems Theory 3
- ACG 6457: Accounting Systems Audit, Control, and Security 3
- ACG 6476: Contemporary Issues in Accounting Info. Systems 3
- ACG 6932: Integrative Accounting Seminar 3

Three of the following:
- ACG 6346: Cost Accounting Theory 3
- ACG 6636: Contemporary Issues in Auditing 3
- ACG 6875: Development of Accounting Thought 3
- ACG 5201: Advanced Financial Accounting 3
- ACG 5501: Governmental/Not-For-Profit Accounting 3
ACG 5675 Internal and Operational Auditing 3
TAX 5015 Federal Taxation of Business Entities 3
TAX 6065 Tax, Research, Planning and Procedure 3

Other business courses: Three (3) elective courses (9 hours) outside the field of Accountancy.
ISM 4233 Information System Interface Design 3
ISM 4234 Object-Oriented Design & Development 3
ISM 6218 Advanced Database Management 3
ISM 6225 Distributed Information Systems 3
ISM 6480 Electronic Commerce 3
BUL 5331 Law and the Accountant 3
ISM 6217 Database Administration 3

Tax Track (30 hours) (not currently available)
ACG 6932 Integrative Accounting Seminar 3
TAX 6005 Advanced Partnership Taxation 3
TAX 6016 Advanced Corporate Taxation I 3
TAX 6025 Advanced Corporate Taxation II 3

Three of the following:
ACG 6636 Contemporary Issues in Auditing 3
ACG 6875 Development of Accounting Thought 3
ACG 6346 Cost Accounting Theory 3
ACG 6936 Tax Concepts (Selected Topics) 3
ACG 5201 Advanced Financial Accounting 3
ACG 5501 Governmental/Not-for-Profit Accounting 3
ACG 5675 Internal and Operational Auditing 3
TAX 6445 Estate Planning 3

Other business courses: Three elective courses (9 hrs.) outside the field of Accountancy with advance written approval by the M. Acc. Advisor.

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

OTHER INFORMATION: n/a
Adult Education Program
M.A.

**DEGREE INFORMATION**

**Type of Degree Offered:** Master of Arts - M.A.

**Concentrations Offered:** n/a

**Also offered as:**
a concentration under Curriculum and Instruction (Ph.D.) and Educational Program Development (Ph.D.)

**Program Status:** Active

**CONTACT INFORMATION**

**Program Director:** William H. Young
**Other Contact:** n/a
**Phone:** 813-974-3455
**Fax:** n/a
**Email:** adulted@tempest.coedu.usf.edu
**Web Address:** http://www.coedu.usf.edu/leaddev/AdultEducation.htm

**Mailing Address:**
University of South Florida
Leadership Development
Adult Education Program
4202 E. Fowler Avenue, EDU162
Tampa, FL 33620

**PROGRAM INFORMATION**

The Adult Education program provides professional development opportunities to individuals concerned with the learning of adults. It includes courses and experiences for persons employed in or intending to enter adult education as a field of study. This degree is intended to help individuals work with adult learners in a wide variety of school and non-school settings. It is intended for holders of a non-education baccalaureate degree who do not wish to meet teacher certification requirements in the State of Florida.

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

**Major Research Areas:** n/a

**ADMISSION INFORMATION**

Program may have additional requirements; check before applying.

**DEGREE PROGRAM REQUIREMENTS:**

A minimum of 36 semester hours is required for the master's degree, at least 16 hours of which must be at the 6000 level. Courses at the 7000 level are advanced graduate level courses and thus are not generally appropriate for the master's degree program. This program is available as a Plan III non-certification option.

**Plan III - Program of Study (non-thesis option)**
36 hours total minimum
Process Core 6-7 hours: EDF 6481 or EDF 6432 and one approved Psychological or Social Foundations course.
General Adult Education (ADE 6080 or approved alternative) 4 hours

Specialization in Adult Education 26 hours (to include):
Required courses: 6 hours ADE 6385 and EDG 6931 (prior approval needed)
Recommended Courses: 6-7 hours ADE 6161 and ADE 6360

Remaining 12 hours to be selected from: ADE 6160 ADE 6197 ADE 6280, ADE 6287, ADE 6370 ADE 6946, EDG 6906

Other courses offered throughout the University may be selected as part of the remaining hours needed for degree completion based upon the student’s selection and program advisor’s approval. At least one course must be taken outside the program area. Please be advised that program and/or course requirements are subject to change, per state legislative mandates, Florida State Department of Education program approval standards and accreditation criteria.

**Adult Education (M.A.) - Training and Staff Development (ADE-TSD)**

The Training and Staff Development (TSD) program is designed to develop knowledge and specific competencies required to prepare trainers to function successfully in both profit and non-profit organizations. The coursework is derived from an analysis of theory and skills recognized as essential in improving employee performance. It is intended for holders of a non-education baccalaureate degree who do not wish to meet teacher certification requirements in the State of Florida. Individuals holding an education degree are also encouraged to participate in this program if they desire employment outside the school based environment.

**Program Requirements**
This program is available as a Plan III, non-certification option. A minimum of 36 semester hours is required for the
master’s degree, at least 16 hours of which must be at the 6000 level. Courses at the 7000 level are advanced graduate level courses and thus are not generally appropriate for the master’s degree program. This program is available as a non-certification option.

Program of Study (non-thesis option)  36 hours
Process Core  6-7 hours:
EDF 6481 or EDF 6432  and One approved Psychological or Social Foundations course (EDF prefix) listed in the specialization area.
Specialization in Adult Education  24 hours
Required courses
ADE 6385                  3 hours
ADE 6370 Trainers in Business and Industry  3 hours
ADE 6946 Practicum        3-6 hours
Remaining hours to be selected from among:
ADE 6160, EDF 6165, EDF 6166, EDF 6281, EDF 6288, EDF 7655, ADE 7931, ADE 6360
Electives                  6 hours
ADE 6161

Elective courses taken as part of this degree may include those from psychology, sociology, guidance, administration, gerontology or any related field. Electives may be chosen from courses provided throughout the university. At least one course must be taken outside the field.

Comprehensive Examination

Thesis: A Thesis Option is available. Please be advised that program and/or course requirements are subject to change, per state legislative mandates, Florida Department of Education program approval standards, and accreditation criteria

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

OTHER INFORMATION: n/a
Aging Studies Program
Ph.D.

DEGREE INFORMATION

Type of Degree Offered:
Doctor of Philosophy - Ph.D.

Concentrations Offered:
n/a

Also offered as:
n/a

Program Status:  Active

CONTACT INFORMATION

Program Director:  Cathy McEvoy
Other Contact:    
Phone:    813-974-2414
Fax:    813-974-9754
Email:    cmcevoy@luna.cas.usf.edu
Web Address:    http://www.cas.usf.edu/gerontology/index.html

Mailing Address:
University of South Florida
Interdisciplinary Program - School of Aging Studies
Aging Studies Program
4202 E. Fowler Avenue, SOC107
Tampa, FL 33620

PROGRAM INFORMATION

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

The Ph.D. in Aging Studies is hosted by School of Aging Studies, which is the organizational focal point for interdisciplinary research, educational, clinical and community service activities for faculty and students. An interdisciplinary committee of faculty governs the program, therefore, students can develop a research program, which focuses on their particular interests, including faculty throughout the university.

The Ph.D. in Aging Studies is a research-oriented program designed to train future leaders in the field of aging. The program admits students who show exceptional promise to become strong academic, public sector, and corporate researchers. Students should expect to enroll in the program full time (9 credits in fall, 9 credits in spring, and 6 credits in summer). First year students are generally supported with at $15,000 fellowship, tuition waiver, and health insurance. Fellowship or assistantship support and tuition waivers are generally available during subsequent years of doctoral training.

Faculty Organization

The interdisciplinary nature of the program is exemplified by the number of core faculty credentialed to teach in the program and the range of academic departments they represent. Over forty faculty from ten colleges and research centers have been identified as the core faculty in the program. They represent over sixteen academic departments. Additional faculty are expected to augment the core faculty bringing increased diversity and interdisciplinary expertise to the program.

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

Major Research Areas:
n/a

ADMISSION INFORMATION

Program may have additional requirements; check before applying.

DEGREE PROGRAM REQUIREMENTS:

There are 4 three-credit courses that constitute the core interdisciplinary requirements for the program and 2 courses that fulfill the Tools of Research requirements. The requirements are enrollment in Psychological Aging: Interdisciplinary Perspectives, Biomedical Aging, Population Aging, and Social and Health Aspects of Aging. Each core course is taught from an interdisciplinary perspective with faculty from different fields addressing issues from their disciplinary perspectives. Students must also enroll in one research methods and one statistical/analytical methods course.

Students are required to enroll in the Aging Studies Pro-seminar (2 credits) each fall and spring semester.
continuously after their first semester until they are
Admitted to Candidacy. The Pro-seminars investigate
different topics each semester and are led by faculty from
different disciplines as well as guest speakers.

Students entering the program may be advised to take
additional courses to prepare them for careers as
researchers and scholars in their area of specialization
within Aging Studies. Students entering with master's
degrees in relevant disciplines may not need to take
additional courses. Students develop individualized
courses of study, allowing specialization in a wide variety
of content areas and research methods. Supervised research
experience is available from a number of faculty with
diverse research expertise.

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

OTHER INFORMATION: n/a
American Studies Program
M.A.

DEGREE INFORMATION

<table>
<thead>
<tr>
<th>Type of Degree Offered:</th>
<th>Master of Arts - M.A.</th>
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<td>Concentrations Offered:</td>
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<tr>
<td>Also offered as:</td>
<td>n/a</td>
</tr>
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<td>Program Status:</td>
<td>active</td>
</tr>
</tbody>
</table>

CONTACT INFORMATION

| Program Director:                           | Ruth Banes            |
| Other Contact:                              | n/a                   |
| Phone:                                      | 813-974-2431          |
| Fax:                                        | 813-974-9409          |
| Email:                                      | banes@luna.cas.usf.edu|
| Web Address:                                | [http://www.cas.usf.edu/humanities/index.html](http://www.cas.usf.edu/humanities/index.html) |
| Mailing Address:                            | University of South Florida
|                                             | Humanities and American Studies
|                                             | American Studies Program
|                                             | 4202 E. Fowler Avenue, CPR107
|                                             | Tampa, FL 33620       |

PROGRAM INFORMATION

The Master of Arts in American Studies offers students the opportunity to study the immensely complicated social relations and cultural patterns that have unified and sometimes divided Americans. Students examine popular culture, as well as elite culture, heroines and heroes, the lives of ordinary people, in addition to recognized historical and cultural figures.

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

Major Research Areas:
n/a

ADMISSION INFORMATION

Program may have additional requirements; check before applying.

DEGREE PROGRAM REQUIREMENTS:

Total required hours (33)

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

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

3. 6 hours: Thesis AMS 6971.

During the semester immediately following completion of required course work, each student should take a written examination on two areas of concentration, selected after consultation with the Graduate Director so that they will be relevant to the student's thesis.

The thesis is an extended research project within a specific area of Concentration, culminating in a written academic analysis. Upon completion of the thesis, the subject of which must be determined in consultation with the Graduate Director, the student must schedule an oral defense.

COURSES:
See [http://www.ugs.usf.edu/sab/sabs.cfm](http://www.ugs.usf.edu/sab/sabs.cfm)

OTHER INFORMATION:
n/a
Anthropology Program
M.A.

DEGREE INFORMATION

Type of Degree Offered: Master of Arts - M.A.

Concentrations Offered: n/a

Also offered as: n/a

Program Status: Currently not admitting students

CONTACT INFORMATION

Program Director: Brent Weisman
Other Contact: n/a
Phone: 813-974-2138
Fax: 813-974-2668
Email: nfenelon@cas.usf.edu
Web Address: http://www.cas.usf.edu/anthropology/index.html

Mailing Address:
University of South Florida
Anthropology
Anthropology Program
4202 E. Fowler Avenue, SOC107
Tampa, FL 33620

PROGRAM INFORMATION

Contact Program for information.

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

Major Research Areas:
n/a

ADMISSION INFORMATION

Currently inactive. Program may have additional requirements; check before applying.

DEGREE PROGRAM REQUIREMENTS:
Contact Program for information

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

OTHER INFORMATION: n/a
Applied Anthropology Program
M.A.

DEGREE INFORMATION

Type of Degree Offered:
Bachelor of Arts - M.A.

Concentrations Offered:
n/a

Also offered as:
n/a

Program Status: Active

CONTACT INFORMATION

Program Director: Brent Weisman
Other Contact: n/a
Phone: 813-974-2138
Fax: 813-974-2668
Email: nfenelon@cas.usf.edu
Web Address: http://www.cas.usf.edu/anthropology/index.html

Mailing Address:
University of South Florida
Anthropology
Applied Anthropology Program
4202 E. Fowler Avenue, SOC107
Tampa, FL 33620

PROGRAM INFORMATION

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

Master’s level anthropology at USF has two emphases – the MA in Applied Anthropology and the MA in Public Archaeology. Although these two tracks share some common requirements, and both are bound by general rules of USF Graduate Studies, they have different curricula and employment trajectories. Public Archaeology graduates typically enter careers in contract archaeology, or public and private agencies and museums responsible for managing archaeological resources. The MA in Applied Anthropology is designed to lead to employment in diverse areas that include health care, education, urban planning, human services, private sector consulting and research, and non-governmental community organizations. Museum and heritage programming represent an area of overlap between the two emphases. Students who wish to pursue these kinds of specialties will develop curricula that draw from both applied and public archaeology requirements in consultation with their advisors.

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

Major Research Areas:
n/a

ADMISSION INFORMATION

Program may have additional requirements; check before applying.

DEGREE PROGRAM REQUIREMENTS:

Total required hours (40)

Comprehensive exam requirement satisfied upon successful completion of Proseminar II (ANG 6931)

Core Requirements:

Applied Anthropology track MA students are required to take ANG 5937 (Graduate Proseminar I), ANG 6931 (Graduate Proseminar II), ANG 6701 (Contemporary Applied Anthropology) and ANG 6766 (Research Methods in Applied Anthropology), plus four (4) elective graduate seminars in Anthropology.

Public Archaeology track MA students are required to take ANG 5937 (Graduate Proseminar I), ANG 6931 (Graduate Proseminar II), ANG 6198 (Archaeological Methods), ANG 6196 (Archaeological Theory), and ANG 6197 (Public Archaeology), plus two (2) electives in archaeology, and one (1) elective in biological anthropology.

One graduate level statistic course (ANG 5937: Seminar in Anthropology).
One graduate level course outside of the Anthropology Department

ANG 6915:MA Internship, 4 credit hours minimum.

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

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

OTHER INFORMATION:
N/a
Applied Anthropology Program
Ph.D.

**DEGREE INFORMATION**

Type of Degree Offered:  
Doctor of Philosophy - Ph.D.

Concentrations Offered:  
n/a

Also offered as:  
n/a

Program Status:  
active

**CONTACT INFORMATION**

Program Director:  
Brent Weisman

Other Contact:  
Phone: 813-974-2138
Fax: 813-974-2668
Email: nfenelon@cas.usf.edu

Web Address:  
http://www.cas.usf.edu/anthropology/index.html

Mailing Address:  
University of South Florida  
Anthropology  
Applied Anthropology Program  
4202 E. Fowler Avenue, SOC107  
Tampa, FL 33620

**PROGRAM INFORMATION**

The PhD program in Applied Anthropology, initiated in 1984, was the first doctoral program of its kind. Its primary focus is to prepare students in the theories, methods, skills and techniques of applied anthropology. The program is designed to prepare students to conduct research, teach, and practice applied anthropology in both academic and nonacademic settings. Students participate in either a structured research internship or independent field research for two consecutive semesters. Collaborative agreements with the Colleges of Public Health, Medicine, Nursing, and Education, along with The Florida Mental Health Institute, Center for Urban Transportation Research, Area Center on Aging, Anchin Center, USF Community Initiative, Center for Globalization Research, Center for Disease Control and Prevention, the Center for Disaster Management and Humanitarian Assistance, Battelle Center for Health Studies, Hillsborough Children’s Board, and the Latin American and Caribbean Studies Center provide students with access to a wide range of faculty experience and expertise.

The PhD track in Archaeology at the University of South Florida is designed to meet the needs and demands of 21st century archaeology. It is a comprehensive program that builds on our highly successful MA program, and integrates the subfields of anthropology while providing in-depth coursework in archaeology and related disciplines. The program is designed to prepare students to conduct research, teach, and practice archaeology in public, private, and academic sectors. Students participate in either a structured research internship or independent field research. Collaborative agreements with local, state and federal agencies and museums provide students with access to a wide range of internship and research opportunities. Faculty specialize in various area including historic and prehistoric archaeology in the United States, Latin America and Europe; archaeological science; cultural resource management and public archaeology; and museum studies.

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

**Major Research Areas:**  
n/a

**ADMISSION INFORMATION**

Program may have additional requirements; check before applying.

**DEGREE PROGRAM REQUIREMENTS:**

Total required hours: 60 hours beyond the M.A.

Course requirements:

a.) Upon completion of any prerequisites: ANG 7933 (Graduate Proseminar I) followed by ANG 7938 (Graduate Proseminar II).

b.) Proseminars I and II. Must receive a grade of “B” or better; satisfies preliminary examinations in four subfields upon successful completion of ANG 7938 (Graduate Proseminar II).

c.) For Ph.D. Applied track, five additional required courses within the Department of Anthropology ANG 6490 (Seminar in Cultural Anthropology [when topic is Anthropological Theory Today]), ANG 6701 (Contemporary Applied Anthropology), ANG 6766 (Research Methods in Applied Anthropology), ANG 7704 (Legal and Ethical aspects of Applied Anthropology), ANG 7750 (Research Methods in Applied Anthropology [when the topic is quantitative methods]). For the Archaeology track: ANG 6198 (Archaeological Methods), ANG 6196 (Archaeological Theory and Current Issues), ANG
6197 (Cultural Resource management [if not take in the MA program]).
d.) Four elective graduate level Anthropology courses.

Tools of research
a.) Advanced quantitative methods ANG 7750
   (Research methods in Applied Anthropology).
b.) Two additional skills area; e.g., foreign languages, qualitative research methods.

External specialization
Minimum of three graduate level courses taken outside the Department of Anthropology, with consent of advisor; students with M.A. degrees in disciplines other than Anthropology may, at the discretion of the Advisor and Supervisory Committee, use the M.A. if not in anthropology as proof of the external specialization.

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

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

Two-semester internship or dissertation research ANG 7940 (Doctoral Internship in Applied Anthropology, minimum of 6 credit hours).

Dissertation, based on research or internship ANG 7980 (Doctoral Dissertation, minimum of 12 credit hours). Students are required to accumulate a minimum of 6 credits in dissertation hours during each 12-month period (e.g., Fall, Spring, Summer) until the degree is granted.

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

OTHER INFORMATION: n/a
Applied Behavior Analysis Program
M.A.

DEGREE INFORMATION

Type of Degree Offered:
Master of Arts - M.A.

Concentrations Offered:
n/a

Also offered as:
n/a

Program Status:  n/a

CONTACT INFORMATION

Interim Program Director:  Kelli McCormack Brown
Other Contact:  Brenda Hunter
Phone:  813-974-2910
Fax:  813-974-7061
Email:  abausf@grad.usf.edu
Web Address:  www.grad.usf.edu

Mailing Address:
University of South Florida
Interdisciplinary Program
Applied Behavior Analysis Program
4202 E. Fowler Avenue, FAO126
Tampa, FL  33620

PROGRAM INFORMATION

The master's degree program in applied behavior analysis (ABA) is designed to meet growing needs in Florida and nationally for practitioners who can work effectively within systems to improve the quality of services in the fields of developmental services, education, child protective services, rehabilitation, mental health, and business and technology. ABA provides an approach for developing, implementing, and evaluating practical strategies to produce changes in socially significant behaviors of individuals in the context of community settings as well as in institutional settings. Three important features characterize the scientific basis upon which ABA is built: a) it focuses upon objectively measurable behavior of an individual or system; b) it studies environmental influences upon the targeted behaviors; and c) it places a premium upon single-subject research designs to analyze the effects of different environmental arrangements.

The core curriculum for this program focuses on: a) the methods, principles, and procedures of applied behavior analysis practice and research, and b) the application of behavior analysis and behavioral support in complex environments (i.e., home, school, work, other community settings, and institutional settings). The program provides an educational track for individuals completing undergraduate degrees as well as for practitioners currently working in service systems to develop expertise and credentials for employment opportunities within Florida and nationally.

The 40-credit-hour master's degree in ABA is interdisciplinary and is housed in the College of Graduate Studies. It provides coursework and practicum supervision across three colleges (College of Arts and Sciences, College of Education, and the Louis de la Parte Florida Mental Health Institute). A faculty member who serves as the ABA Program Coordinator manages the ABA program. The program is guided through the oversight of the ABA Faculty Steering Committee, consisting of representatives from each of three colleges involved and the College of Graduate Studies.

This interdisciplinary program links existing courses, as well as new courses, to create a comprehensive, cohesive degree program. The program follows a mentorship model, and students are admitted to the program with a faculty member serving as their Major Professor. Students are required to show proficiency in courses that constitute a core curriculum, demonstrate competencies through supervised practicum experiences, and complete a research thesis. The master's degree program was designed to prepare students to meet the standards to be eligible to take the national certification exam offered by the national Behavior Analysis Certification Board after graduation. It will assist in their preparation for employment within the fields of developmental services, education, child protective services, rehabilitation, and mental health—where there are growing demands for competent professionals with expertise in applied behavior analysis.

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

Major Research Areas:
n/a

ADMISSION INFORMATION

Program may have additional requirements; check before applying.

DEGREE PROGRAM REQUIREMENTS:
6 required courses (20 credit hrs)
2 elective courses (6 credit hrs)
Practicum (8 credit hours)
Thesis (6 credit hours)
Courses
EDF 6215 Principles of Learning
EDG 6931 Direct Observation Methods and Functional Assessment
PSY 6217 Single Case Experimental Design
EDF 6217 Behavior Theory
EDG 6931 Ethics
MHS 6100 Applied Behavior Analysis in Complex Community Environments
2 electives

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

OTHER INFORMATION:
n/a
Architecture Program
M.Arch.

DEGREE INFORMATION

Type of Degree Offered:
Master of Architecture - M.Arch.

Concentrations Offered:
N/A

Also offered as:
N/A

Program Status: Active

CONTACT INFORMATION

Program Director: Daniel Powers
Other Contact: n/a
Phone: 813-974-4031
Fax: 813-974-2557
Email: information@arch.usf.edu
Web Address: http://www.arch.usf.edu/

Mailing Address:
University of South Florida
Architecture
Architecture Program
3702 Spectrum Blvd, #180
Tampa, FL 33620

PROGRAM INFORMATION

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

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

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

ADMISSION INFORMATION

Program may have additional requirements; check before applying. See Graduate Admissions online

DEGREE PROGRAM REQUIREMENTS:

Program Requirements:
The M.Arch. Degree normally requires 105 credit hours of coursework for students with baccalaureate degrees in non-architectural subjects. In order to complete the program in a timely manner, students must complete 15-17 credit hours per semester. Students with undergraduate degrees in architecture or related fields may have some required courses waived; see “Course Requirements”.

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

National Architectural Accrediting Board (NAAB), which is the sole agency authorized to accredit US professional degree programs in architecture, recognized two types of degrees: the Bachelor of Architecture and the Master of Architecture. A program may be granted a five-year, three-year, or two-year term of accreditation, depending on its degree of conformance with established educational standards. Masters degree programs may consist of a pre-professional undergraduate degree and a professional graduate degree, which when earned sequentially, comprise an accredited professional education. However, the pre-professional degree is not, by itself, recognized as an accredited degree.”

Major Research Areas:
Community Design and Research
History/Theory
ARC 5731 – Architectural History I*
ARC 5732 – Architectural History II*
ARC 5256 – Design Theory*

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

Design/Graphics
ARC 5361 – Core Design I*
ARC 5362 – Core Design II*
ARC 5363 – Core Design III*
ARC 6364 – Advanced Design A *
ARC 6365 – Advanced Design B
ARC 6366 – Advanced Design C
ARC 6970 - Masters Project Planning
ARC 6971 - Masters Project
One elective in Design/Graphics*

Practice
ARC 6287 – Professional Practice I
ARC 6288 – Professional Practice II
Urban Design
One elective in Urban Design

Free Electives
18 credit hours required

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

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

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

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

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

Because the notebook computer system is an educational requirement of the SA+CD, the cost of a new computer purchase can be factored in determining a student’s financial need. The student must contact the USF Office of Financial Aid (813.974.4700) to request additional information and a “Budget Adjustment for Computer Purchase” form prior to ordering a computer. The decision regarding a student’s budget adjustment may take 6-8 weeks, so students are strongly encouraged to plan ahead. Only one financial aid budget adjustment up to $2,500 for a new computer can be issued during a three year period.

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

Field Trips
Each year students in the fall term beginning students in take a field trip to Savannah, GA. Transportation, lodging and meals ($100-200) are paid by the students. Students in design studios take field trips to such cities as New York, Boston and Chicago in the spring. The School defrays some of the transportation cost. The cost of these trips may be $200-600 per student.

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

GPA of 3.0 in Design
In addition to the state-wide requirement that students maintain an overall grade point average (GPA) of 3.0 or
better, the Architecture faculty also requires that students maintain a GPA of 3.0 or better in Design.

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

OTHER INFORMATION:
N/a
DEGREE INFORMATION

**Type of Degree Offered:**
Master of Fine Arts - M.F.A.

**Concentrations Offered:**
N/A

**Also offered as:**
N/A

**Program Status:** Active

CONTACT INFORMATION

**Program Director:** Bradlee Shanks
**Other Contact:** n/a
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**Fax:** 813-974-9226
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**Web Address:** http://www.art.usf.edu/

Mailing Address:
University of South Florida
School of Art and Art History
Art Program
4202 E. Fowler Avenue, FAH110
Tampa, FL 33620

PROGRAM INFORMATION

The nationally ranked MFA Program in Studio Art has been carefully designed as a course of study that will maximize the student’s potential for in depth investigation of his or her chosen artistic ideas, themes and/or media. Students are encouraged to acquire technical and conceptual skills in more than one medium/studio discipline and to work toward developing techniques of medium that best communicate the content of their artistic pursuits.

**Accreditation:**
Accredited by the Commission on Colleges of the Southern Association of College and Schools; National Association of Schools of Art and Design.

**Major Research Areas:** N/A

ADMISSION INFORMATION

Program may have additional requirements; check before applying.

DEGREE PROGRAM REQUIREMENTS:
The M.F.A. degree requires a minimum of 60 hours. Specific program requirements include the following:

- ART 6798 Contemporary Thought or History of Photography*
- ART 6940 Graduate Art Forum – repeated 3 times
- ART 6055 Graduate Art History 8 hours
- ART 6937 Graduate Instructor Methods**
- ART 6956 Masters Exhibition Documentation
- ART Studio and Discretionary Electives
- *20th Century Art History is a prereq to ARH 6798
- *20th Century Art History is a prerequisite to admission to the graduate program. It may be taken during the first year of graduate school but will not count as part of the 60 hour requirement.

*All M.F.A. students must take at least one course in non-western art or thought. This course can be taken as an art history course or through another department offering such an emphasis. Course work taken as undergraduate studies in non-western art may substitute but only at the discretion of the Art Faculty.

** elective option for students who have not assisted as Teaching Assistants in the Foundation course

The rest of the program is discretionary and can be planned with the advice of the Graduate Art Advisor in its initial stages. After faculty acceptance of the student’s proposed final MFA project, a Supervisory Committee will be selected and serve in an advisory capacity with the student for planning the rest of their program.

Transfer Credits. Requests for use of transfer credits or credits earned as a non-degree seeking student should be made when the student applies to the graduate program. The faculty will decide at the time of admission whether or not such credits will be used toward the MFA degree. Transfer credit is limited to 8 hours.

Oral Defense. MFA students are also required to participate in an orals defense in conjunction with their M.F.A. exhibition. This is a forum for questions from faculty representatives and is open to graduate students and the general public.

Studio Space. An M.F.A. graduate student normally is assigned a studio, when available, in the department and is expected to remain in residence with regular studio hours while enrolled.

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

OTHER INFORMATION:
N/a
### Art History Program

#### M.A.

#### DEGREE INFORMATION

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#### CONTACT INFORMATION

<table>
<thead>
<tr>
<th>Program Director:</th>
<th>Elisabeth Fraser</th>
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</thead>
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<tr>
<td>Other Contact:</td>
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</tr>
<tr>
<td>Phone:</td>
<td>813-974-2360</td>
</tr>
<tr>
<td>Fax:</td>
<td>813-974-9226</td>
</tr>
<tr>
<td>Email:</td>
<td><a href="mailto:olinger@arts.usf.edu">olinger@arts.usf.edu</a></td>
</tr>
<tr>
<td>Web Address:</td>
<td><a href="http://www.arthistory.usf.edu/">http://www.arthistory.usf.edu/</a></td>
</tr>
</tbody>
</table>
| Mailing Address:       | University of South Florida  
|                        | School of Art and Art History  
|                        | Art History Program  
|                        | 4202 E. Fowler Avenue, FAH110  
|                        | Tampa, FL 33620         |

#### PROGRAM INFORMATION

The School of Art and Art History offers high quality M.A. studies in art history from the Middle Ages to the present. The focus of all art history courses and programs is on the intellectual and cultural history of art. Course work is supplemented by practical internships in galleries and museums as well as study-abroad programs. While a reading knowledge of French or German is preferred, other languages may be substituted with advisor’s approval if more appropriate to the student’s interests.

**Accreditation:**

Accredited by the Commission on Colleges of the Southern Association of College and Schools; National Association of Schools of Art and Design.

**Major Research Areas:**

MA Art History students are guided by the art history faculty in selecting their area of research after completing a year of graduate study. Because the focus of the Art History MA Program is on the cultural and intellectual history of art, graduate thesis work is expected to address an area of art from a contemporary perspective that is complimentary. This program features an endowed chair in modern and contemporary art history.

**ADMISSION INFORMATION**

Program may have additional requirements; check before applying.

**DEGREE PROGRAM REQUIREMENTS:**

Course work consists of 18 hours of specially designated courses, 18 hours of electives, and 2 hours of thesis for a total of 38 hours.

1. Students must take the following courses:

   a. ARH 5795 Methods of Art History (must be taken by the student’s second year in the program)
   b. three Critical Studies Seminars (cannot be substituted with Directed Studies courses)
   c. Thesis Writing for Art History Majors – usually taken in the second year of the student’s program.
   d. Art History Thesis

2. ARH 5797 Museum internship, arranged through the Art History faculty, is optional and can be taken any term after the first semester. Museum experience is encouraged but course credit for museum internship is limited to those students seeking a Graduate Certificate in Museum Studies.

**Thesis** - By the end of the student’s second semester and completion of 18 hours, the student will select (in consultation with the art history faculty) a Faculty Graduate Thesis Committee. Students will be advanced to candidacy by the art history faculty based in part upon satisfactory completion of a thesis proposal. The Graduate Thesis Committee must approve the written thesis and conduct the oral defense of the thesis in satisfaction of degree requirements.

**Transfer of Credit** - There is no automatic transfer of special student credit or graduate credit earned at other institutions or from other graduate program in the university towards M.A. degree requirements. The School of Art and Art History has designated a six hour limit on all credit taken as special student status. Any transfer of credit or special student hours to be used toward M.A. degree requirements are only granted after a faculty review at the time the student has been accepted into the M.A. program.

**COURSES:** See [http://www.ugs.usf.edu/sab/sabs.cfm](http://www.ugs.usf.edu/sab/sabs.cfm)
Audiology Program
Au.D.

DEGREE INFORMATION

Type of Degree Offered:
Doctor of Audiology - Au.D.

Concentrations Offered:
N/A

Also offered as:
N/A

Program Status: Active

CONTACT INFORMATION

Program Director: Arthur M. Guilford
Other Contact: n/a
Phone: 813-974-2006
Fax: 813-974-0822
Email: jilister@chuma1.cas.usf.edu
Web Address: http://www.cas.usf.edu/csd/index.htm

Mailing Address:
University of South Florida
Communication Sciences and Disorders
Audiology Program
4202 E. Fowler Avenue, PCD1017
Tampa, FL 33620

PROGRAM INFORMATION

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

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

Major Research Areas: N/A

ADMISSION INFORMATION

Program may have additional requirements; check before applying.

DEGREE PROGRAM REQUIREMENTS:
General University requirements for graduate work must be fulfilled and a minimum of 128 hours of regularly scheduled academic course work at the graduate level. In addition, students will enroll in sufficient graduate clinical practicum to meet a minimum of 2000 hours of clinical experience to fulfill the requirements of the American Speech-Language-Hearing Association. Also required for graduation are the attainment of a “B” or better in each graduate Audiology course, the attainment of clinical competence determined by a GPA of 3.0 in all clinical practica, satisfactory passage of a comprehensive clinical oral examination and the National Teacher Examination in the speciality of Audiology, and successful completion of a professional research project. A student with a bachelor’s degree and appropriate prerequisites may enter the four-year post-baccalaureate program. A student with a master’s degree and five years full-time clinical experience, State License in Audiology or the Certificate of Clinical Competence in Audiology (CCC-A) may be admitted into an individualized program of study.

Audiology Science Core (17)
SPA 5506 Perspectives in Audiology (2)
SPA 5303 Auditory Anatomy & Physiology (3)
SPA 6930 Psychoacoustics (3)
SPA 5132 Audiology Instrumentation (3)
SPA 5506 Math & Physics for Speech & Hearing (3)
SPA 6805 Research Procedures (3)

Audiology Practice Core (54)
SPA 5328, SPA 6318, SPA 6345, SPA 6348, SPA 6128,
SPA 6305, SPA 6314, SPA 631X, SPA 6324, SPA 6930,
SPA 6553, SPA 6554, SPA 6555, SPA 7931

Practical Experience (57)
SPA 5506 Clinical Lab I (4)
SPA 5506 Clinical Lab II (4)
SPA 5506 Clinical Lab III (4)
SPA 6505 Audiological Screening DX I (1)
SPA 6505 Aural Rehab for Audiology (1)
SPA 6505 Cerumen Management (1)
SPA 6505 Clinic I (5)
SPA 6505 Clinic II (5)
SPA 6505 Clinic III (5)
SPA 6505 Clerkship I (3)
SPA 6505 Clerkship II (3)
SPA 6505 Clerkship III (3)
SPA 6505 Externship I (9)

Audiology Doctoral Project
SPA 6930 Directed Research (6 minimum)
SPA 7931 Audiology Doctoral Project Seminar (3 minimum)
Annual Examination
Students in Audiology will be evaluated at the end of each year of coursework. The purpose of these examinations is twofold: 1) Determine eligibility for continuation in academic coursework and practical experiences; and 2) Determine areas of weakness that will require remediation. Individualized remediation programs will be designed, if needed, by the student under the supervision of the Audiology faculty and may include the completion of additional written papers, projects, and/or additional coursework.

First Year Examination.
This examination will be given in the Summer of the first year of the program. The objective examination will consist of questions related to coursework and clinical labs taken in the first year of study. Passing will be considered as an overall 80% or higher grade. A student who receives a score of less than 80% in any one area is strongly encouraged to complete a program of self-study in that area as the material may appear on subsequent examinations. An overall score lower than 80% will require a complete re-examination at a later date, following extensive remediation. This remediation must be designed by the student and submitted to his/her faculty advisor for review and modification by the first week of the fall semester following the examination. The faculty advisor will approve the remediation plan and set a date for its completion. The remediation must be completed in a timely fashion. Students should be aware that permission to enter Clerkship I or II may be delayed by this remediation.

Only one re-examination will be allowed, scheduled at the convenience of the Audiology faculty. The re-examination may be provided in a format different than that of the initial examination and all material covered by the initial examination as well as remediation material may appear on the re-examination. If a student fails both the initial examination and the re-examination, his or her case will be reviewed by the entire Audiology faculty to determine if he or she will be allowed to continue in the Au.D. program.

Third Year Examination.
All students will be required to pass the National Examination in Audiology (NESPA) prior to the completion of their third year of study. Generally, this examination is taken in the Fall of the third year of study, but may be taken at any time during the third year of study. Students must successfully complete this examination prior to beginning their final Externship experience in the fourth year.

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

DEGREE INFORMATION
Type of Degree Offered:
Master of Science - M.S.

Concentrations Offered:
N/A

Also offered as:
N/A

Program Status:  Not accepting students

CONTACT INFORMATION
Program Director:  Arthur M. Guilford
Other Contact:  n/a
Phone:  813-974-2006
Fax:  813-974-0822
Email:  rroberts@chuma1.cas.usf.edu
Web Address:  http://www.cas.usf.edu/csd/index.htm

Mailing Address:
University of South Florida
Communication Sciences and Disorders
Audiology Program
4202 E. Fowler Avenue, PCD1017
Tampa, FL  33620

PROGRAM INFORMATION
M.S. Program currently not accepting students.  Contact Program for information.

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

Major Research Areas:
N/A

ADMISSION INFORMATION
Program may have additional requirements; check before applying.

DEGREE PROGRAM REQUIREMENTS:
All majors must complete the following Core Requirements. (8 Credits)
SPA 5150L (2) (Speech-Language majors only)
SPA 5132 (2) (Audiology majors only.)
SPA 5552(2)
SPA 6601 (1)
SPA 6805 (3)

Thesis
In addition to the Core Requirements, each student will complete a minimum of 27 hours of elective course work and sufficient clinical practicum hours to satisfy the clock hour requirements as stated below. Also, each student must complete at least 1 hour of SPA 6910 (Directed Research) and a minimum of 5 hours of SPA 6971 (Thesis) and submit an approved thesis.

Non-thesis
In addition to the Core Requirements, each student will complete a minimum of 27 hours of elective course work and sufficient clinical practicum hours to satisfy the clock hour requirements as stated below. Also, each student must complete an additional 7 hours of coursework. Of these, at least 3 hours must be from within the department while 3 hours may be selected from another department. A 1-hr. Directed Research experience is required. Prior to initiation of non-thesis option coursework, the student must obtain approval from an advisor, study plan director, and the department chair.

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

OTHER INFORMATION:
N/a
# Aural (Re)Habilitation Program

## M.S.

### DEGREE INFORMATION

**Type of Degree Offered:**
Master of Science - M.S.

**Concentrations Offered:**
N/A

**Also offered as:**
N/A

**Program Status:**
Not accepting students

### CONTACT INFORMATION

**Program Director:**
Arthur M. Guilford

**Other Contact:**
n/a

**Phone:**
813-974-2006

**Fax:**
813-974-0822

**Email:**
n/a

**Web Address:**
http://www.cas.usf.edu/csd/index.htm

**Mailing Address:**
University of South Florida
Communication Sciences and Disorders
Aural (Re)Habilitation Program
4202 E. Fowler Avenue, PCD1017
Tampa, FL 33620

### PROGRAM INFORMATION

The Department of Communication Sciences and Disorders is devoted to the study of normal and disordered human communication. Courses and practice provide the student with principles, research methods and application of knowledge about the spectrum of verbal and non-verbal communication. Diagnosis and remediation of communicative problems dominate the clinical component of this course of study.

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

**Major Research Areas:**
N/A

### ADMISSION INFORMATION

Program may have additional requirements; check before applying.

### DEGREE PROGRAM REQUIREMENTS:

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<td>(Audiology majors only.)</td>
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**Thesis** - In addition to the Core Requirements, each student will complete a minimum of 27 hours of elective course work and sufficient clinical practicum hours to satisfy the clock hour requirements as stated below. Also, each student must complete an additional 7 hours of coursework. Of these, at least 3 hours must be from within the department while 3 hours may be selected from another department. A 1-hr. Directed Research experience is required. Prior to initiation of non-thesis option coursework, the student must obtain approval from an advisor, study plan director, and the department chair.

**Non-thesis** - In addition to the Core Requirements, each student will complete a minimum of 27 hours of elective course work and sufficient clinical practicum hours to satisfy the clock hour requirements as stated below. Also, each student must complete an additional 7 hours of coursework. Of these, at least 3 hours must be from within the department while 3 hours may be selected from another department. A 1-hr. Directed Research experience is required. Prior to initiation of non-thesis option coursework, the student must obtain approval from an advisor, study plan director, and the department chair.

**Certification of the Hearing Impaired (Deaf Education)**
Students interested in certification as Teacher of the Hearing Impaired (Deaf Education) may elect to fulfill all requirements for the Certificate of Clinical Competence in Audiology or in Speech-Language Pathology. If this option is selected, students must meet academic and clinical standards and requirements as outlined above and meet requirements as follow. Programs for Teachers of the Hearing Impaired (Deaf Education) will be planned from among courses offered by the appropriate teacher preparation areas within the College of Education, and must also include the following:

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**COURSES:**
See [http://www.ugs.usf.edu/sab/sabs.cfm](http://www.ugs.usf.edu/sab/sabs.cfm)

### OTHER INFORMATION:

N/a
Bioethics and Medical Humanities Program
M.A.B.M.H.

DEGREE INFORMATION

Type of Degree Offered:
Master of Arts in Bioethics and Medical Humanities
M.A.B.M.H.

Concentrations Offered:
n/a

Also offered as: n/a

Program Status: active

CONTACT INFORMATION

Program Director: Lori Roscoe
Other Contact: Kathy Zahn
Phone: 813-974-4181
Fax: n/a
Email: kzahn@hsu.usf.edu
Web Address: n/a

Mailing Address:
University of South Florida
Bioethics and Medical Humanities Program
12901 Bruce B. Downs Blvd,
Tampa, FL 33620

PROGRAM INFORMATION

This innovative program, the first in Florida to combine bioethics and medical humanities, is designed to prepare leaders for increasingly complex healthcare concerns, especially those raised by advancements in technology, the distribution of scarce resources, and emerging global tensions. It is designed to focus on questions associated with genetic research and therapy, new reproductive technologies, health care delivery systems, end-of-life decisions, bio-terrorism, and numerous challenges associated with cultural sensitivities and competencies. The program is founded on the premise that questions posed by contemporary health care dilemmas, whether local, national or international, do not reside within the province of any single discipline, but require collaborative integration of insights from science, humanities, history, law, medicine, public health, nursing, philosophy, education and social-behavioral sciences.

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

Major Research Areas:
n/a

ADMISSION INFORMATION

Program may have additional admission requirements. Check before applying.

DEGREE PROGRAM REQUIREMENTS:
Four required core courses (12 credit hours) and Research Ethics Seminar (3 credit hours)
Four Elective courses (12 credit hours)
Two internships (6 credit hours)
Thesis project or three month internship (6 credit hours)

Core Courses:
BMS 6821 Medical Ethics and Humanities
BCH 6411 Health Sciences
BCH 6xxx Philosophical and Religious Perspectives on Ethics
BCH 6xxx Bioethics in Contemporary Society

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

OTHER INFORMATION:
N/a
Bioinformatics and Computational Biology Program
M.S.B.C.B.

DEGREE INFORMATION

Type of Degree Offered:
Master of Science in Bioinformatics and Computational Biology – M.S.B.C.B.

Concentrations Offered:
n/a

Also offered as:
n/a

Program Status: active

CONTACT INFORMATION

Program Directors: Inge Wefes
Other Contact: n/a
Phone: 813-974-5360
Fax: 813-974-7357
Email: jwefes@hsc.usf.edu
Web Address: http://biochem.usf.edu/msbioinfocompbiol/index.html

Mailing Address:
University of South Florida
Biochemistry and Molecular Biology
Bioinformatics and Computational Biology Program
12901 Bruce B. Downs Blvd,
Tampa, FL 33612

PROGRAM INFORMATION

The Masters Program in Bioinformatics and Computational Biology at the University of South Florida represents a multi-college partnership and a truly interdisciplinary collaboration. Participating departments include the Departments of Biochemistry & Molecular Biology in the College of Medicine, Mathematics in the College of Arts and Sciences, Computer Sciences and Engineering and the Division of Biomedical Engineering in the College of Engineering, Epidemiology & Biostatistics in the College of Public Health and Information Systems & Decision Sciences in the College of Business Administration. The program is designed to meet the increasing demand for trained people in this emerging area, which crosses the traditional fields of biological, mathematical and computer sciences. The program, therefore, builds on and complements the current strengths of the university.

The goal of the Masters Program in Bioinformatics & Computational Biology is to provide students enrolled in the program with high quality training and education that will prepare them for careers in science, industry, health care and education. The curriculum has been designed accordingly and provides the theoretical background, the practical training and, with the internships, the "real life" experience, which will equip students with the essential tools for a successful career in the field of Bioinformatics & Computational Biology.

The Masters Program in Bioinformatics & Computational Biology is designed for 40 credit hours to be obtained during two years of study. Nine core courses will provide the foundation and basics before advanced work, including four electives, and a Master's thesis or internship will be pursued. The curriculum is flexible and will be tailored to the individual student's background, interests and career goals. However, electives must be selected from at least two of the participating departments to assure breadth of training. Exceptional students with extra motivation and commitment can enroll in the Ph.D.-PLUS program. The Ph.D.-PLUS program provides the opportunity to study for a Ph.D. in Biochemistry and Molecular Biology and a Master's degree in Bioinformatics and Computational Biology concurrently. Nine credit hours can be double credited. http://biochem.usf.edu/phdplus/index.html

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

Major Research Areas: n/a

ADMISSION INFORMATION

Program may have additional requirements; check before applying.

DEGREE PROGRAM REQUIREMENTS:
Prerequisites: Calculus I-III, linear algebra, biostatistics, at least "C" and "maple" or "mathematica" or "math-cad", one year of general biology and one year of organic chemistry.

Required Courses:
- GMS 6200 Introduction into Medical Biochemistry Cr: 3-5
- BCH 6888 Bioinformatics I Cr: 2
- MAT 5932 Sel. Topics in Combinatorics and Graph Theory C: 3
- BCH 6411 Introduction into Molecular Biology Cr: 2-4
- GMS 7930 Bioinformatics II Cr: 3
- MAT 5932 Selected Topics in Probability Theory Cr: 3
- GMS 7930 Research Ethics Cr: 2
- CIS 6930 Advanced Data Structures Cr: 3
- MAT 6932 Sel. Topics in Bioinformatics & Computational Biology Cr: 2
- Complete M.S. Thesis Project or Internship Cr: 4-6

COURSES: See http://www.ugs.usf.edu/sab/sabs.cfm
Biology Program
M.S.

DEGREE INFORMATION

Type of Degree Offered:
Master of Science - M.S.

Concentrations Offered:
Conservation Biology
Coastal Marine Biology
Molecular-Cellular Biology

Also offered as:  N/A

Program Status:  Active

CONTACT INFORMATION

Program Director:  Henry R. Mushinsky
Other Contact:  n/a
Phone:  813-974-3250
Fax:  813-974-3263
Email:  csmith2@chuma1.cas.usf.edu
Web Address:  http://www.cas.usf.edu/biology/

Mailing Address:
University of South Florida
Biology
Biology Program
4202 E. Fowler Avenue, SCA110
Tampa, FL  33620

PROGRAM INFORMATION

The Department of Biology was the first to offer the Ph.D. degree at the University of South Florida. The department is located in two modern, well-equipped buildings. Most research in cell and molecular, and microbiology is done by faculty housed in the Bio-Science facility, and most of the research in organismal biology and ecology is conducted by faculty housed in the Science Center. In addition, the department has common research facilities in two nearby buildings.

One theme that runs throughout the department is that of cooperation. Within the Department, faculty and graduate students often work together on broad ranging research projects that bring together many of the traditionally separate areas of biology. Many of the Department’s cell and molecular biologists and ecologists are involved in cooperative research with their colleagues in Public Health, Nursing, and Medicine. Likewise, many of the Department’s organismal biologists and ecologists are involved in cooperative research with colleagues in the Departments of Geology, Psychology, Geography, Marine Science, and the Environmental Science and Policy program. Often biology graduate students have faculty members from these other areas of USF as members of their graduate committees.

Because of the many undergraduate courses that require hands-on experimental laboratories, the Department supports many graduate students as Teaching Assistants. The Department values high quality teaching at all levels of instruction. Research Assistant positions also are available to support research with specific faculty members.

The departmental graduate director, or an assigned mentor, serves as the student’s advisor until the student makes arrangements for a faculty member to serve as major professor. The selection of a major professor includes acceptance of the student by the faculty member. Applicants are strongly urged to contact faculty conducting research in the student’s area of interest.

For all master’s students, the major professor and at least two additional faculty constitute the student’s supervisory committee, the major professor and at least one of the committee members must be from the Biology Department. For all Ph.D. students the major professor and at least three additional faculty constitute the student’s supervisory committee. The major professor and three members must be from the Department of Biology. Supervisory committees must be established within two semesters after matriculation. Failure to do so will be cause for dismissal.

The Departmental Chairman, the College Dean and the Dean of the Office of Graduate Studies must approve the Supervisory Committee. Once a major professor has been assigned and/or a student occupies or utilizes significant space or facilities for research or analogous scholarly activity directly pertinent to the generation of a thesis or dissertation, the student shall enroll for 2 hours of research credit each semester (other than summer semester), until eligible to enroll in thesis or dissertation credits. No student shall be required to enroll for more than 9 graduate hours per semester.

A student must be registered for an appropriate load (in no case fewer than 2 graduate hours) in the college for the semester in which all degree requirements are satisfactorily completed. A student who receives three grades below “B” in structured courses required by the advisory committee will be dropped from the program. Registration in courses entitled Directed Research, Thesis, or Dissertation must be with the approval of the major professor and must be commensurate with each student’s research plan. Students may not register in Thesis: Master’s or Dissertation: Doctoral until a Supervisory Committee has been formed.
A student who enrolls in courses entitled Thesis: Master’s or Dissertation: Doctoral but does not submit a thesis or dissertation will not be certified for graduation.

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

**Major Research Areas:**
N/A

**ADMISSION INFORMATION**
Program may have additional requirements; check before applying.

**DEGREE PROGRAM REQUIREMENTS:**
The M.S. degree requires completion of
1. structured coursework
2. a research thesis or a review paper
3. passing a comprehensive examination.

The Master’s Degree Requirements should be completed in two to three years. The Department of Biology requires that all graduate work applied toward the completion of degree requirements be completed within a five year period after matriculation. Master’s students are encouraged to gain teaching experience in at least one undergraduate course in the department. Thesis research should be publishable and students are encouraged to publish their findings. Overall degree requirements for the Master of Science (M.S.) are as follows:

1. Credit hour requirement: a total of 30 semester hour credits beyond the Baccalaureate Degree is required.
2. No minimum requirement for structured course work exists. The graduate student, major professor and student’s graduate committee will establish the specific course requirement for each graduate student
3. A minimum of six thesis research credit hours is required.
4. Submission of a thesis proposal and approval by the major professor, graduate committee and graduate director
5. Successful completion of the oral examination. The exam should be taken at the end of the first year, or early in the second year of study. The examination is administered and evaluated by the student’s graduate committee.

6. Seminar requirement: one presentation, excluding the thesis seminar and defense. Students should present posters or oral presentations based on their thesis research at national/regional professional meetings. The student’s graduate committee must approve the presentation.
7. Submission of an acceptable thesis.
8. Presentation of the thesis seminar (BSC 6935) and successful defense of the thesis.

**Non-Thesis -** For students enrolled in the non-thesis program, a 30-hour minimum is required at the 5000-6000 level; 26 hours must be in formally structured courses, 16 hours must be at the 6000 level; 15 structured hours must be in Biology. A review paper of a topic approved by the supervisory committee is required.

**Comprehensive Examination.** A final comprehensive examination is required for all master’s students. This examination is open to all departmental faculty. Students must take their comprehensive exam within two years of matriculation and the exam is normally taken after the completion of all formal course work. Thesis students must take the examination at least one semester before the thesis is presented. Any graduate work counted toward the requirement for the M.S. degree must be completed within 5 years after matriculation.

All Master’s Degree students must present a seminar to the Department of Biology and must be enrolled in BSC 6935, during the final semester. The seminar should be a concise summary of the research completed to satisfy the requirements for the M.S. Degree. The seminar is open to the general public and must be announced two weeks prior to the presentation. Upon completion of the seminar, the general public will be invited to ask questions. At the discretion of the student’s graduate committee, members of the committee may continue to question the graduate student after the general public has departed the seminar room. Each student is expected to defend his/her research to the unanimous satisfaction of the graduate committee.

**COURSES:**
See [http://www.ugs.usf.edu/sab/sabs.cfm](http://www.ugs.usf.edu/sab/sabs.cfm)

**OTHER INFORMATION:**
N/a
Biology Program
Ph.D.

DEGREE INFORMATION

Type of Degree Offered:
Doctor of Philosophy - Ph.D.

Concentrations Offered:
- Applied/Environmental Microbiology (Ph.D.)
- Botany (Ph.D.)
- Cellular Biology (Ph.D.)
- Ecology (Tropical, Populational, Community, Behavioral, Physiological, and Chemical Conservation) (Ph.D.)
- Environmental Biology (Ph.D.)
- Genetics (Ph.D.)
- Immunology (Ph.D.)
- Marine Biology (Ph.D.)
- Microbiology (Ph.D.)
- Molecular Biology (Ph.D.)
- Molecular Microbiology (Ph.D.)
- Neurobiology (Ph.D.)
- Pathogenic Microbiology (Ph.D.)
- Physiology (Microbial, Plant, Animal) (Ph.D.)
- Systematics (Ph.D.)
- Zoology (Ph.D.)

Also offered as:
N/A

Program Status: Active

CONTACT INFORMATION

Program Director: Henry R. Mushinsky
Other Contact: n/a
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Fax: 813-974-3263
Email: csmith2@chuma1.cas.usf.edu
Web Address: http://www.cas.usf.edu/biology/

Mailing Address:
University of South Florida
Biology
Biology Program
4202 E. Fowler Avenue, SCA110
Tampa, FL 33620

PROGRAM INFORMATION

The Department of Biology was the first to offer the Ph.D. degree at the University of South Florida. The department is located in two modern, well-equipped buildings. Most research in cell and molecular, and microbiology is done by faculty housed in the Bio-Science facility, and most of the research in organismal biology and ecology is conducted by faculty housed in the Science Center. In addition, the department has common research facilities in two nearby buildings.

One theme that runs throughout the department is that of cooperation. Within the Department, faculty and graduate students often work together on broad ranging research projects that bring together many of the traditionally separate areas of biology. Many of the Department’s cell and molecular biologists and ecologists are involved in cooperative research with their colleagues in Public Health, Nursing, and Medicine. Likewise, many of the Department’s organismal biologists and ecologists are involved in cooperative research with colleagues in the Departments of Geology, Psychology, Geography, Marine Science, and the Environmental Science and Policy program. Often biology graduate students have faculty members from these other areas of USF as members of their graduate committees.

Because of the many undergraduate courses that require hands-on experimental laboratories, the Department supports many graduate students as Teaching Assistants. The Department values high quality teaching at all levels of instruction. Research Assistant positions also are available to support research with specific faculty members.

The departmental graduate director, or an assigned mentor, serves as the student’s advisor until the student makes arrangements for a faculty member to serve as major professor. The selection of a major professor includes acceptance of the student by the faculty member. Applicants are strongly urged to contact faculty conducting research in the student’s area of interest.

For all master’s students, the major professor and at least two additional faculty constitute the student’s supervisory committee, the major professor and at least one of the committee members must be from the Biology Department. For all Ph.D. students the major professor and at least three additional faculty constitute the student’s
supervisory committee. The major professor and three members must be from the Department of Biology. Supervisory committees must be established within two semesters after matriculation. Failure to do so will be cause for dismissal.

The Departmental Chairman, the College Dean and the Dean of the Office of Graduate Studies must approve the Supervisory Committee. Once a major professor has been assigned and/or a student occupies or utilizes significant space or facilities for research or analogous scholarly activity directly pertinent to the generation of a thesis or dissertation, the student shall enroll for 2 hours of research credit each semester (other than summer semester), until eligible to enroll in thesis or dissertation credits. No student shall be required to enroll for more than 9 graduate hours per semester.

A student must be registered for an appropriate load (in no case fewer than 2 graduate hours) in the college for the semester in which all degree requirements are satisfactorily completed. A student who receives three grades below “B” in structured courses required by the advisory committee will be dropped from the program. Registration in courses entitled Directed Research, Thesis, or Dissertation must be with the approval of the major professor and must be commensurate with each student’s research plan. Students may not register in Thesis: Master’s or Dissertation: Doctoral until a Supervisory Committee has been formed. A student who enrolls in courses entitled Thesis: Master’s or Dissertation: Doctoral but does not submit a thesis or dissertation will not be certified for graduation.

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

Major Research Areas:
N/A

ADMISSION INFORMATION
Program may have additional requirements; check before applying.

DEGREE PROGRAM REQUIREMENTS:
The Ph.D. degree requires completion of:
1. structured coursework
2. tools of research
3. qualifying exam and Admission to Candidacy
4. Oral Defense and Dissertation

Coursework
Individuals who receive the M.S. degree from the Department of Biology at USF may waive 10 credits, with the approval of the supervisory committee. Six hours of graduate work done in a master’s program at another institution may be waived from the doctoral program, with approval of the supervisory committee. Twelve hours of graduate work completed while a non-degree seeking student at this institution may be transferred to the doctoral program, with approval of the supervisory committee. A total of 90 credits beyond the baccalaureate must be earned; this includes any graduate credit earned prior to admission to the doctoral program. A minimum of three years of graduate work beyond the Baccalaureate Degree is required. At least one academic year of residence must be on the campus. A year of residence is enrollment in a minimum of 9 semester credits for two consecutive semesters. The direction and immediate supervision of graduate work for doctoral students resides with the major professor and student’s graduate committee. Graduate students are not admitted unless a major professor has agreed to serve as the student’s supervisor. The University imposes limitations on the time period between admission to candidacy and successful completion of degree requirements.

EDITOR’S NOTE: University policy for time limits may be viewed in Section 10 of this catalog.

The Department of Biology requires that all graduate work applied toward the completion of degree requirements be completed within a seven year period after matriculation. Doctoral students are encouraged to gain teaching experience in at least two undergraduate courses in the department. Overall degree requirements for the Doctor of Philosophy are as follows:
1. Credit hour requirement: A total of 90 semester hour credits beyond the Baccalaureate degree is required.
2. No minimum requirement for structured coursework exists. The graduate student, major professor and graduate committee will establish the specific course requirement for each graduate student.
3. A minimum of twenty-four (24) dissertation research credit hours is required.
4. Submission of a doctoral proposal and approval by major professor, graduate committee, and graduate director.
5. Successful completion of the preliminary doctoral examination. The exam consists of a written and oral portion, and is written and graded by the graduate committee.
6. Seminar requirement: two presentations, excluding the doctoral seminar and defense. Students should present posters or oral presentations based on their dissertation research at national/regional professional meetings. The graduate committee must approve the presentation.
7. Publication requirement: one research paper must be submitted for publication to a refereed scientific journal by the date of the Doctoral Seminar and Defense. The paper may be sole or coauthored, but it must be based on the dissertation research. The graduate committee must approve the paper prior to submission.
9. Presentation of the doctoral seminar (BSC 7936) and successful defense of the dissertation.
Admission to Candidacy
The doctoral student is eligible for admission to candidacy after completing structured course requirements and passing the qualifying examination, upon recommendation of the supervisory committee and approval of the Dean of the College and the Dean of the 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 the six credit hour policy and appropriate to the demands made on faculty, staff, and University facilities, but in no event will the total number of earned dissertation credits be fewer than 16. Students not admitted to candidacy are not eligible to enroll in BSC 7980.

Additional Requirements
Any graduate work counted toward fulfilling the requirements for the Ph.D. degree must be completed within 7 years after matriculation. A public seminar presenting the dissertation is required. A final oral examination administered and evaluated by the supervisory committee emphasizes the dissertation and the student’s general field of research is also required. A doctoral student must enroll in BSC 7936 the semester that they are presenting their Ph.D. dissertation.

Doctoral Seminar and Defense.
All doctoral students must present a seminar to the Department of Biology and must be enrolled in BSC 7936, during the final semester. The seminar should be a concise summary of the research completed to satisfy the requirements for the Ph.D. The seminar is open to the general public and must be announced two weeks prior to the presentation. Upon completion of the seminar, the general public will be invited to ask questions. At the discretion of the student’s graduate committee, members of the committee may continue to question the graduate student after the general public has departed the seminar room. Each student is expected to defend his/her research to the unanimous satisfaction of the graduate committee.

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

OTHER INFORMATION:
N/a
Biomedical Engineering Program
M.S.B.E.

DEGREE INFORMATION

Type of Degree Offered:
Master of Science in Biomedical Engineering - M.S.B.E.

Concentrations Offered:
N/A

Also offered as:
N/A

Program Status: Active

CONTACT INFORMATION

Program Director: William Lee
Other Contact: n/a
Phone: 813-974-3651
Fax: n/a
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Web Address: http://che.eng.usf.edu/BioMed/index.html

Mailing Address:
University of South Florida
Chemical Engineering
Biomedical Engineering Program
4202 E. Fowler Avenue, ENB 118
Tampa, FL 33620

PROGRAM INFORMATION

Biomedical Engineering is a highly interdisciplinary program that combines engineering and the medical sciences. The student works with an advisor to develop a graduate program that draws on courses from engineering, medicine, public health, and the life sciences. Current active areas of research include: biomechanics, biomaterials, medical imaging, tissue engineering, sensors, telehealth, cellular-level drug delivery, and rehabilitation engineering. Participating institutions include the James Haley Veterans Administration Hospital, Shriners Orthopedic Hospital for Children, Florida Orthopedics Institute, and Tampa General Hospital. Dr. William Lee (Lee@eng.usf.edu) is the Program Director.

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

Major Research Areas:
N/A

ADMISSION INFORMATION

Program may have additional requirements; check before applying.

DEGREE PROGRAM REQUIREMENTS:
The thesis option consists of 30 hours of coursework, including 6 hours of thesis. Students with non-engineering undergraduate degrees can apply; remedial courses may be required that will not count towards the degree.

Currently there are three required classes:
GMS 6xxx – Anatomy and Physiology for Engineers (3)
BME 6xxx – Foundations of Biomedical Engineering (3)
PHC 6051 – Biostatistics II (3)
BME 5740 Theory and Design of Bioprocesses 3

COURSES:
BME 5742 Pharmaceutical Engineering 2
BME 5746 Introduction to Biomedical Engineering 3
BME 5748 Selected Topics in Biomedical Engineering 1-3
BME 5910 Directed Research in Bioengineering 1-3

OTHER INFORMATION:

See http://www.ugs.usf.edu/sab/sabs.cfm
Biomedical Engineering Program
M.S.E.S.

DEGREE INFORMATION
Type of Degree Offered:
Master of Science in Engineering Science - M.S.E.S.

Concentrations Offered:
N/A

Also offered as:
N/A

Program Status:  Active

CONTACT INFORMATION
Program Director:  William Lee
Other Contact:  n/a
Phone:  813-974-3651
Fax:  n/a
Email:  lee@eng.usf.edu
Web Address:  http://che.eng.usf.edu/BioMed/index.html

Mailing Address:
University of South Florida
Chemical Engineering
Biomedical Engineering Program
4202 E. Fowler Avenue, ENB 118
Tampa, FL  33620

PROGRAM INFORMATION
Biomedical Engineering is a highly interdisciplinary program that combines engineering and the medical sciences. The student works with an advisor to develop a graduate program that draws on courses from engineering, medicine, public health, and the life sciences. Current active areas of research include: biomechanics, biomaterials, medical imaging, tissue engineering, sensors, telehealth, cellular-level drug delivery, and rehabilitation engineering. Participating institutions include the James Haley Veterans Administration Hospital, Shriners Orthopedic Hospital for Children, Florida Orthopedics Institute, and Tampa General Hospital. Dr. William Lee (Lee@eng.usf.edu) is the Program Director

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

Major Research Areas:
N/A

OTHER INFORMATION:
N/a

ADMISSION INFORMATION
Program may have additional requirements; check before applying.

DEGREE PROGRAM REQUIREMENTS:
The thesis option consists of 30 hours of coursework, including 6 hours of thesis. Students with non-engineering undergraduate degrees can apply; remedial courses may be required that will not count towards the degree.

Currently there are three required classes:
GMS 6xxx – Anatomy and Physiology for Engineers (3)
BME 6xxx – Foundations of Biomedical Engineering (3)
PHC 6051– Biostatistics II (3)

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

- 99 -
Business Administration Program
M.B.A.

DEGREE INFORMATION

Type of Degree Offered:
Master of Business Administration - M.B.A.

Concentrations Offered:
See Application Tracks

Application Tracks/Areas of Study:
Entrepreneurship
Finance
Advanced Financial Institution & Markets
Advanced Financial Management
Advanced International Business
Government and Business
Health Care in a Changing Business Environ.
International Business
Law, Ethics and Sustainability
Leading the Customer Driven Organization
Management
Advanced Management Information Systems
Marketing Strategy
Advanced Marketing

Also offered as:
Executive MBA
Executive MBA for Physicians
Saturday MBA (Not accepting students)
MBA at Sarasota
MBA at St. Petersburg

Program Status:  Active (except Saturday MBA)

CONTACT INFORMATION

Program Director:  Steven Baumgarten
Other Contact:  n/a
Phone:  813-974-3335
Fax:  813-974-4518
Email:  mba2@coba.usf.edu
Web Address:  http://www.coba.usf.edu/

Mailing Address:
University of South Florida
Business Administration
Business Administration Program
4202 E. Fowler Avenue, BSN3403
Tampa, FL  33620

PROGRAM INFORMATION

The Master of Business Administration (M.B.A.) is a professional degree designed to prepare graduates for managerial roles in business and not-for-profit organizations. Graduates will develop the necessary skills and problem-solving techniques that will permit them to make an early contribution to management and eventually to move into broad, general management responsibilities at the executive level. The program is designed to meet the needs of qualified men and women with undergraduate degrees from accredited universities. The College makes no distinction in the selection process between applicants with experience and those coming directly from academic life. However, experience is a meaningful background and will permit the student to better understand the subject matter to be mastered.

Accreditation:
Accredited by the Commission on Colleges of the Southern Association of College and Schools; AACSB - International (Association to Advance Collegiate Schools of Business)

Major Research Areas:
Contact Coordinator for department

ADMISSION INFORMATION

Program may have additional requirements; check before applying.

DEGREE PROGRAM REQUIREMENTS:
The M.B.A. degree is a --56 hour program.

All M.B.A. candidates must complete all degree requirements within five years of beginning the program. The full-time student without course waivers generally will need 6 semesters to complete the program. Part-time students can complete all work within a reasonable time--approximately three years without course waivers. Part-time students are encouraged to take two courses per
semester and must complete 12 hours per calendar year to remain on active status as a degree-seeking student. Students who have completed undergraduate or graduate courses in business and economics from an AACSB accredited school may receive course waivers and reduce their course loads from the maximum requirement. Courses are scheduled to accommodate both full-time and part-time students. All courses are at the graduate level. Students entering the program are expected to have sufficient competency in mathematics (College Algebra), communication skills (written and verbal), and basic computer skills. The curriculum consists of:

### The Common Body of Knowledge
Common Body of Knowledge: (CBK) courses, also known as the "TOOL" Area courses, are designed to provide basic background in the several functional areas in order to prepare for more advanced studies. The courses assume little or no prior knowledge in the field. Students having undergraduate degrees in Business Administration may be eligible for waivers, subject to standards set by the faculty. The conditions for waivers are explained more fully below.

### Application Areas (tracks):
The application areas encourage the development of market driven competencies and provide students with distinctive sets of knowledge and skills. Each grouping of courses allows students to position themselves in the marketplace by choosing applications that match their career goals. Students will select 3 areas of competency, each with 9 credit hours (advanced tracks are 6 credit hours).

### Competency Certification:
Students will receive a certificate of achievement for the successful completion of each application sequence. Application area courses also include the opportunity to sharpen skills in writing, presentation, teamwork, technology applications, global applications, and communication.

### Integrated Business Applications:
Integrated Business Applications is a six credit, two consecutive semester course sequence which emphasizes the integration and utilization of techniques and methods taught in the Tool and Application areas. The sequence involves working in both group and individual projects, with "live" as well as published cases. It utilizes a variety of computer applications, and includes the development of detailed business plans.

### M.B.A. Course Structure
Common Body of Knowledge, "Tool" Courses: 23 credits
- ACG 6025 Financial Accounting for Managers 2
- ACG 6075 Management Accounting & Control 2
- MAN 6055 Human Behavior and Organization 2
- ECO 6114 Managerial Economics 2
- QMB 6305 Managerial Decision Analysis 2
- ECO 6204 Global Econ. Environment of Business 2
- MAR 6815 Marketing Management 2
- FIN 6406 Financial Management 3
- ISM 6021 Management Information Systems 2
- QMB 6603 Operations Management & Quality Enhancement 2
- GEB 6445 Social, Ethical, Legal Systems 2
- Application Areas (Required Electives)
  - Application Track #1 9
  - Application Track #2 9
  - Application Track #3 9
- Total Electives 27

Note: Some Application Tracks may not be offered each year. Additional application tracks may be developed based on students interests and needs.

GEB 6895 Integrated Business Applications I 3
GEB 6896 Integrated Business Applications II 3
Total Semester Credits Required 56

### Constraints
1. The maximum credits required is fifty-seven (56). The minimum for a student with a business degree from an AACSB accredited institution within the last seven years is thirty-five (35).
2. Students with an undergraduate degree in Business who are eligible to waive the tool area courses must complete an advanced course in four of the seven areas waived. Students do not need an advanced course in their area of undergraduate major.
3. Credits earned from core courses completed under the old program will not be counted toward the minimum 35 credits required under the revised program. However, these courses will be applied toward the breadth requirement for the new program.

Note: Tool/core courses may not be counted as electives. Thesis - Students may elect a 6 hour thesis in any of the areas of concentration of the college, subject to departmental approval.

### Non-Tampa Campus Offerings
The full-time and part-time MBA programs are offered on the Tampa campus and the USF Downtown Center. The MBA at Sarasota is administered separately. For application procedures and additional information see MBA at Sarasota (LINK).

### Courses:
See [http://www.ups.usf.edu/sab/sabs.cfm](http://www.ups.usf.edu/sab/sabs.cfm)

### Other Information:
N/a
Business Administration Program
Ph.D.

DEGREE INFORMATION

Type of Degree Offered:
Doctor of Philosophy - Ph.D.

Concentrations Offered:
See Application Tracks below.

Application Tracks/Areas of Study:
Accounting
Economics
Finance
Information Systems
Marketing

Also offered as:
n/a

Program Status:  Active

CONTACT INFORMATION

Program Director:  Brad Kamp
Other Contact:  n/a
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Email:  cslagle@coba.usf.edu
Web Address:  http://www.coba.usf.edu/

Mailing Address:
University of South Florida
Business Administration Program
4202 E. Fowler Avenue, BSN3403
Tampa, FL  33620

PROGRAM INFORMATION

See M.B.A. program description

Accreditation:
Accredited by the Commission on Colleges of the Southern Association of College and Schools; AACSB - International (Association to Advance Collegiate Schools of Business)

Major Research Areas:
Contact Coordinator for department

ADMISSION INFORMATION

Program may have additional requirements; check before applying.

DEGREE PROGRAM REQUIREMENTS:

A minimum of 90 semester hours beyond the bachelor's degree is required. This includes 21 hours of dissertation. A minimum of 45 hours of coursework must be completed at the University of South Florida.

Foundation Courses: These courses are designed to develop an appreciation of the institution of business and to help students see how their areas of specialization fit into this general picture. With the approval of the student's program committee, a student may satisfy these requirements in any of the following ways:
A. By completing an undergraduate degree in business at an AACSB accredited institution, with an average of "B" or better in the last 60 hours, no more than 5 years prior to admission to the Ph.D. program.
B. By completing an M.B.A. degree at an AACSB accredited institution, no more than 5 years prior to admission to the Ph.D. program
C. By completing one approved course with a grade of "B" or better in each of the functional areas: Accounting, Finance, Information Systems, Management, and Marketing. (Economics requirements are described under core requirements.) All graduate level courses at the 6000 level or above, with the exception of specific "tool" courses (e.g. statistics), will count toward this requirement.
D. By successfully petitioning the doctoral Program Committee to accept previous academic work (e.g., specialized Masters programs in business, degrees granted more than 5 years ago, etc.) in fulfillment of all or part of this requirement. Such a petition must be initiated during the first semester of the program.

Core Courses: The core courses are designed to provide a strong background in Economics and to develop the student's quantitative and statistical research skills. These courses are required of all students in the program. The College will waive a course only if the student has passed the same or equivalent course with a grade of "B" or better within the preceding five years. The Economics requirement can be met by completing two graduate level courses, one in microeconomics and one in macroeconomics, with a grade of "B" or better. The courses which satisfy this requirement are:
ECO 6114 Managerial Economics
ECO 6204 Global Economic Environment of Business
ECO 6115 Microeconomics*
ECO 6206 Aggregate Economics*
ECO 6936 Economics of Organization*
At least one course must be taken from among those listed above with an asterisk (*).

The quantitative and statistical coursework is to be determined by the student's program committee in consultation with the student. A three course series is required. An appropriate sequence should be chosen from the following:

- ECO 6424 Econometrics I
- ECO 6425 Econometrics II
- ECO 6936 Econometrics III
- ECO 6936 Econometrics IV
- GEB 6375 Applied Linear Statistical Models
- QMB 7565 Introduction to Research Methods
- QMB 7566 Applied Multivariate Statistical Methods

Any substitution of coursework should be approved at the time of acceptance, but must be approved before the student takes a substitute course. In addition, students are required to take an additional research elective approved by their advisory committee.

Should a student earn a "C" or lower in the core, the case will be brought before the Doctoral Program Committee for review. After reviewing the case, the Committee will take the following step:

1. Require the student to retake the course. If a student retakes the course and fails to receive a grade of "B" or better, the student is subject to dismissal.

**Major Field**

All students will take at least 5 courses at the 6000 or 7000 level in an area designated as the student's major. Students are encouraged to identify courses in the major field that will provide experience in applying current research techniques to problems in that field. To accomplish this, the student may propose a combination of formal classroom courses and independent directed-research courses. This combination may include a year-long research seminar in which the groundwork is laid for the student's dissertation. The specific agenda of courses will be determined by the student's program committee.

The following fields are offered as majors: Accounting, Economics, Finance, Management, Information Systems, and Marketing. Courses taken as part of the Foundation or Core sections may not be counted as part of the hours required for a major field.

**Support Field**

The support area will consist of a minimum of three courses from one of the fields listed under the major fields. The support area and the major field cannot be taken in the same department. Courses within the support area can be selected to complement the major field, and, in special cases, may include courses outside the College of Business. The nature and number of the support area courses will be determined by the Student's Program Committee in consultation with the Ph.D. coordinator of the support field discipline department. Courses taken as part of the Foundation or Core courses may not be counted as part of the 9 hours required for support fields.

**Comprehensive Qualifying Examination**

Upon completion of all coursework, students must pass a comprehensive written examination in the major area. The student's performance on this exam should reflect familiarity with the literature, as well as with current issues and problems related to these fields. A student who fails the field exam may retake it within one year. A second failure disqualifies the student from continuing the Ph.D. program. If the degree is not conferred within 5 calendar years of the comprehensive qualifying examination, a second and different examination must be taken. Students passing the field examinations are eligible for admission to candidacy for the Ph.D. program.

The decision to administer a separate comprehensive exam for a support area will be made by the department in which the support area is taken. In the event that an interdisciplinary support area is selected, any department represented by six (6) or more semester hours may require a qualifying examination. In the event that no single department represents six semester hours or more, the student's program committee will solicit input from the faculty teaching the courses in the support area. If a majority of those polled take the position that a separate comprehensive examination in the support area is not appropriate, the exam will not be administered. If a separate comprehensive examination is not administered in a support area, material from the support area will be integrated into the comprehensive exam in the major area.

Normally, qualifying examinations will be administered in October and March of each year. A student who anticipates sitting for a field exam should notify the department chair and the Associate Dean in writing during the first week of the semester in which they plan to take the exam. The exams will be a minimum of 8 hours. The Associate Dean's Office will coordinate with the relevant department in scheduling and grading the exam.

**Dissertation**

- 21 hours of dissertation are required for the degree.

**Residency Requirement**

- Ph.D. students in the College are required to complete a minimum of 15 hours per calendar year. Failure to meet this requirement will result in the student being placed on conditional status.

**COURSES:**

See [http://www.ugs.usf.edu/sab/sabs.cfm](http://www.ugs.usf.edu/sab/sabs.cfm)

**OTHER INFORMATION:**

N/a
# Business Administration (Saturday MBA) Program

**M.B.A.**

## DEGREE INFORMATION

**Type of Degree Offered:** Saturday M.B.A. For Professionals - M.B.A.

**Concentrations Offered:** See listing under MBA Program

**Also offered as:** See listing under MBA Program

**Program Status:** Not Accepting Students

## CONTACT INFORMATION

**Program Director:** Steven Baumgarten
**Other Contact:** n/a
**Phone:** 813-974-4557
**Fax:** 813-974-6604
**Email:** samba@coba.usf.edu
**Web Address:** [http://www.coba.usf.edu/](http://www.coba.usf.edu/)

**Mailing Address:**
University of South Florida
Business Administration
Business Administration (Saturday MBA) Program
4202 E. Fowler Avenue, BSN3403
Tampa, FL 33620

## PROGRAM INFORMATION

Currently not active.

The Saturday MBA Program is not a permanent program in the sense that it does not have a regularly scheduled start date or place. Locations are determined in response to assessed community need. To obtain the most current information, please contact the program directly.

**Accreditation:** Accredited by the Commission on Colleges of the Southern Association of Colleges and Schools; AACSB.

**Major Research Areas:** N/A

## ADMISSION INFORMATION

Program may have additional requirements; check before applying.

## DEGREE PROGRAM REQUIREMENTS:

The 30-month program meets on Saturdays from 8:30 - 5:30, breaking only for major holidays. The program consists of 57 credits as follows:

- Managerial Tools Courses, 24 credits
- Application Area Courses, 27 credits
- Integrated Business Applications, 6 credits

Students receive a certificate for each major application area completed:
- Finance
- Management Information Systems
- Management/Marketing

Participants are expected to spend 15 or more hours outside of class to master course work and must have access to computers either at work or home. Program graduates receive a Master's Degree in Business Administration.

**COURSES:**
See [http://www.ugs.usf.edu/sab/sabs.cfm](http://www.ugs.usf.edu/sab/sabs.cfm)

**OTHER INFORMATION:** N/a
Business Administration at Sarasota Program
M.B.A.

DEGREE INFORMATION

Type of Degree Offered:
Master of Business Administration - M.B.A.

Concentrations Offered:
See MBA Program

Also offered as:
See MBA Program

Program Status: Active (except Saturday MBA)

CONTACT INFORMATION

Program Director: Peter French
Other Contact: Marianne Harrison
Phone: 941-349-4351
Fax: 941-349-4351
Email: Harrison@sar.usf.edu
Web Address: http://www.coba.usf.edu/

Mailing Address:
University of South Florida
Business Administration
Business Administration at Sarasota Program
5700 N. Tamiami Trail, PMC101
Sarasota, FL 34243

PROGRAM INFORMATION

The program consists of 56 credits of course work and is designed to be completed in approximately 2 ½ years. The program offers Sarasota-Manatee students geographical convenience, quality and affordability. The program is a lock-step program with a planned maximum number of students per cohort group. Because of the structured nature of the program, students must take all courses as, and when, they are offered. Program staff will register students each semester.

Accreditation:
Accredited by the Commission on Colleges of the Southern Association of College and Schools; AACSB - International (Association to Advance Collegiate Schools of Business)

Major Research Areas:
Contact Coordinator for department

ADMISSION INFORMATION

Program may have additional requirements; check before applying.

DEGREE PROGRAM REQUIREMENTS:
The program is 56 credits.

The curriculum includes:
Managerial Tool Courses (23 credits): These are the basic skills of the MBA program. The techniques and procedures learned in these courses provide the foundation for the specific applications to follow.

Application Area Courses (27 credits): These courses provide the student with specific areas of specialization and competency. The program offers three major application areas: Finance, Management Information Systems, and Management/Marketing. Upon graduation, students will receive a certificate for each major application completed.

Integrated Business Application (6 credits): This is a 2-course sequence which ties together the various individual techniques and methods taught in the Tools and Applications areas. It is a project-based course which involves both individual and group effort.

ECO 6114 Managerial Economics 2
MAN 6055 Human Behavior and Organization 2
ACG 6025 Financial Accounting for Managers 2
ECO 6204 Global Econ. Environment of Business 2
ACG 6075 Management Accounting & Control 2
MAR 6815 Marketing Management 2
QMB 6305 Managerial Decision Analysis 2
ISM 6021 Management Information Systems 2
QMB 6603 Operations Management & Quality Enhancement 2
GEB 6445 Social, Ethical, Legal Systems 2
FIN 6406 Financial Management 3
ISM 6123 Systems Analysis and Design 3
FIN 6416 Advanced Financial Mgt (3)
ISM 6217 Database Administration (3)
MAR 6936 Technology Marketing Management (3)
MAN 6297 Conflict Resolution in Organizations (3)
FIN xxxx Finance Elective TBA (3)
ISM 6442 Global Aspects of IS (3)
MAR 6936 E-commerce Marketing (3)
GEB 6895 Integrated Business Applications (3)
FIN 6815 Investments (3)
GEB 6896 Integrated Business Applications II (3)

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

OTHER INFORMATION:
N/a
Business Administration at St. Petersburg Program
M.B.A.

DEGREE INFORMATION

Type of Degree Offered:
Master of Business Administration - M.B.A.

Concentrations Offered:
Corporate Finance (Reporting and Social Responsibility)
Finance
International Business
Management
Marketing

For a complete list of concentrations offered through USF, refer to the USF MBA Program

Also Offered through other campuses as:
Business Administration (M.B.A. at Tampa)
Executive MBA at Tampa
Executive MBA for Physicians (Not accepting students)
Saturday MBA [Not accepting students]
M.B.A. at Sarasota

Also offered as:
See MBA Program

Program Status: Active (except Saturday MBA)

CONTACT INFORMATION

Program Director: Carole Ciokiewicz
Other Contact: n/a
Phone: 727-553-4MBA
Fax: 727-553-4192
Email: mba@stpt.usf.edu
Web Address: http://www.stpt.usf.edu/COB/USF/St.PetersburgCollegeofBusinessIndex.htm

NOTE: Mailing Address is for University of South Florida.

Mailing Address:
University of South Florida
Business Administration
Business Administration at St. Petersburg Program
140 Seventh Avenue South,
St. Petersburg, FL 33701

PROGRAM INFORMATION

The program consists of 56 credits of course work and is designed to be completed in approximately 2 ½ years. The program offers St. Petersburg students geographical convenience, quality and affordability. The program is a lock-step program with a planned maximum number of students per cohort group. Because of the structured nature of the program, students must take all courses as, and when, they are offered. Program staff will register students each semester.

Accreditation:
The Commission on Colleges of the Southern Association of College and Schools. AACSB – International (Association to Advance Collegiate Schools of Business).

Major Research Areas:
Contact Coordinator for department

ADMISSION INFORMATION

Program may have additional requirements; check before applying.

DEGREE PROGRAM REQUIREMENTS:
The program is 56 credits.

The curriculum includes:

Managerial Tool Courses (23 credits): These are the basic skills of the MBA program. The techniques and procedures learned in these courses provide the foundation for the specific applications to follow.

Application Area Courses (27 credits); These courses provide the student with specific areas of specialization and competency. The program offers three major application areas: Finance, Management Information Systems, and Management/Marketing. Upon graduation, students will receive a certificate for each major application completed.

Integrated Business Application (6 credits): This is a 2-course sequence which ties together the various individual techniques and methods taught in the Tools and Applications areas. It is a project-based course which involves both individual and group effort.

- ECO 6114 Managerial Economics 2
- MAN 6055 Human Behavior and Organization 2
- ACG 6025 Financial Accounting for Managers 2
- ECO 6204 Global Econ. Environment of Business 2
- ACG 6075 Management Accounting & Control 2
- MAR 6815 Marketing Management 2
- QMB 6305 Managerial Decision Analysis 2
ISM 6021 Management Information Systems 2
QMB 6603 Operations Management & Quality Enhancement 2
GEB 6445 Social, Ethical, Legal Systems 2
FIN 6406 Financial Management 3
ISM 6123 Systems Analysis and Design 3
FIN 6416 Advanced Financial Mgt (3)
ISM 6217 Database Administration (3)
MAR 6936 Technology Marketing Management (3)
MAN 6297 Conflict Resolution in Organizations (3)
FIN xxxx Finance Elective TBA (3)
ISM 6442 Global Aspects of IS (3)
MAR 6936 E-commerce Marketing (3)
GEB 6895 Integrated Business Applications (3)
FIN 6815 Investments (3)
GEB 6896 Integrated Business Applications II (3)

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

OTHER INFORMATION:
N/a
Business and Office Education Program
M.A.

DEGREE INFORMATION
Type of Degree Offered:
Master of Arts - M.A.
Concentrations Offered:
N/A
Also offered as:
N/A
Program Status: Not Accepting Students

CONTACT INFORMATION
Program Director: Janet Scaglione
Other Contact: n/a
Phone: 813-974-3455
Fax: 813-974-XXXX
Email: scaglion@tempest.coedu.usf.edu
Web Address: http://www.coedu.usf.edu/college/
Mailing Address:
University of South Florida
Leadership Development
Business and Office Education Program
4202 E. Fowler Avenue, EDU162
Tampa, FL 33620

PROGRAM INFORMATION
Not currently accepting students.

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

Major Research Areas:
N/A

ADMISSION INFORMATION
Program may have additional requirements; check before applying.

DEGREE PROGRAM REQUIREMENTS:
Minimum of 33 semester hours is required for the master's degree, at least 16 hours of which must be at the 6000 level. Courses at the 7000 level are advanced graduate level courses and thus are not approved to be part of the master's degree program. All three plans are available.

Plan I and BTE 5171, Current Trends (EVT 6661), Electives (3 hours), Practicum (BTE 6944), Thesis option available.
Plan II and Current Trends (EVT 6661)
Plan III and Current Trends (EVT 6661), Field Experience (3 hours)

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

OTHER INFORMATION:
N/a
Business Economics Program
M.A.

DEGREE INFORMATION

Type of Degree Offered:
Master of Arts - M.A.

Concentrations Offered:
n/a

Also offered as:
specialization/concentration under Master of Business Administration (2 application areas) and under Doctor of Philosophy (Ph.D.) - Business Administration

Program Status: Active

CONTACT INFORMATION

Program Director: Bradley Kamp
Other Contact: n/a
Phone: 813-974-6549
Fax: 813-974-6510
Email: bkamp@coba.usf.edu
Web Address: http://www.coba.usf.edu/programs.economics

Mailing Address:
University of South Florida
Economics
Business Economics Program
4202 E. Fowler Avenue, BSN3403
Tampa, FL 33620

PROGRAM INFORMATION

The M.A. in economics prepares students for careers as professional economists in business and government. It is also excellent preparation for continued graduate study in economics.

Accreditation:
Accredited by the Commission on Colleges of the Southern Association of College and Schools; AACSB - International (Association to Advance Collegiate Schools of Business)

Major Research Areas:
Labor economics, health economics, industrial organization, international trade and econometrics.

ADMISSION INFORMATION

Program may have additional requirements; check before applying.

DEGREE PROGRAM REQUIREMENTS:

All students are required to take courses in advanced economic theory, policy analysis, and econometrics. Undergraduate economics majors at USF may complete the program in one year beyond the B.A. in the 5-Year B.A./M.A. Program. Students preparing for doctoral studies select from these and additional courses in economic theory, mathematics, and quantitative methods. Where appropriate students may select courses in other departments in the University.

Students must satisfy all University requirements for the M.A. degree. Departmental requirements include 30 hours of graduate credit selected with the approval of the department's graduate advisor. At least 24 hours must be in Economics not including Independent Study (ECO 6906 and Directed Research (ECO 6917).

Required Courses:
ECO 6936 Mathematical Economics 3
ECO 6115 Microeconomics 3
ECO 6206 Aggregate Economics 3
ECO 6424 Econometrics I 3
ECO 6425 Econometrics II 3
ECO 6936 Economic Policy Analysis 3
COBA Electives 6

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

OTHER INFORMATION: n/a
Cancer Biology Program
Ph.D.

DEGREE INFORMATION

Type of Degree Offered:
Doctor of Philosophy - Ph.D.

Concentrations Offered:
N/A

Also offered as:
N/A

Program Status: Active

CONTACT INFORMATION

Program Director: Kenneth L. Wright, Ph.D.
Other Contact: n/a
Phone: 813-903-6876
Fax: 813-979-7264
Email: cancerphd@moffitt.usf.edu
Web Address: http://www.hsc.usf.edu/COM/iop/cancer/

Mailing Address:
University of South Florida
Interdisciplinary Ph.D. Program in Cancer Biology
Cancer Biology Program
H. Lee Moffitt Cancer Center, MRC 4 East,
12902 Magnolia Drive
Tampa, FL 33612

PROGRAM INFORMATION

The H. Lee Moffitt Cancer Center and the University of South Florida have joined to establish a new graduate program focused specifically on Cancer Biology. Tremendous advancement in the detection and treatment of cancer has occurred over the last decade, yet cancer continues to adversely effect millions of people worldwide in terms of quality of life, life span and economic burden. The H. Lee Moffitt Cancer Center at the University of South Florida is a leading institution of basic research, clinical research and patient treatment. The H. Lee Moffitt Cancer Center has received national acclaim and is officially designated as a cancer center by the National Cancer Institute of the National Institutes of Health. The Cancer Biology Ph.D. Program's goal is to train the next generation of Cancer researchers.

Studies of cancer require specific knowledge in multiple fields that have traditionally been independent. Our Cancer Biology Ph.D. program emulates the H. Lee Moffitt Cancer Center and eliminates these boundaries. Students will receive cancer-oriented training in: molecular biology, immunology, functional genomics, bioinformatics, drug discovery & development, cancer prevention & control, cancer therapeutics, cell biology, biochemistry, proteomics chemistry.

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

Major Research Areas:
N/A

ADMISSION INFORMATION

Program may have additional requirements; check before applying.

DEGREE PROGRAM REQUIREMENTS:

Course Requirements - All students are required to successfully complete the Cancer Biology Program Core Courses. In addition students must successfully complete at least two elective courses that have been approved by the Cancer Biology Education Committee. These elective courses are offered through Departments within the College of Medicine, Engineering, and Arts and Sciences. Dissertation Committees may also require students to take additional course work if needed to correct deficiencies. In special circumstances the Cancer Biology Education Committee can waive course requirements, if the student has recently completed identical coursework elsewhere.

Students are required to achieve a minimum GPA of B in all Cancer Biology Core courses and an overall GPA of 3.0 (B) in order to remain in good standing.

Stipends: All cancer Biology Ph.D. students in good standing will receive a $20,000 per year stipend, student health insurance coverage and direct payment of their tuition. All students are highly encouraged to apply for funding from outside sources.

Required Cancer Biology Core Courses
GMS 6056 Cancer Research Techniques
GMS 6054 Cancer Biology I
GMS 6055 Cancer Biology II
GMS 6080 Laboratory Rotations
GMS 6931 Directed Research
GMS 6060 Advances in Cancer Biology
GMS 6057 Current Topics in Oncology
Examples of Approved Elective Courses
GMS 6200 C Core Courses in Medical Biochemistry
BCH 6411 Molecular Biology
GMS 6501 Cellular and Molecular Pharmacology
GMS 6100 Core Courses Medical Microbio & Immun.
GMS 6107 Advances in Virology
GMS 6130 Molecular Biology of Tumor Viruses
GMS 6111 Human Systemic Pathology
GMS 6112 Biochemical Pathology
GMS 6300C Core Courses in Pathology

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

OTHER INFORMATION:
N/a
Career and Technical Education Program
M.A.

DEGREE INFORMATION

Type of Degree Offered:
Master of Arts - M.A.

Concentrations Offered:
N/A

Also offered as:
N/A

Program Status: Active

CONTACT INFORMATION

Program Director: William Blank
Other Contact: n/a
Phone: 813-974-3455
Fax: 813-974-3366
Email: blank@tempest.coedu.usf.edu
Web Address: http://www.coedu.usf.edu/college/

Mailing Address:
University of South Florida
Adult, Career and Higher Education
Career and Technical Education Program
4202 E. Fowler Avenue, EDU162
Tampa, FL 33620

PROGRAM INFORMATION

This Program is available only Plan III, non-certification option.

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

Major Research Areas:
N/A

ADMISSION INFORMATION

Program may have additional requirements; check before applying.

DEGREE PROGRAM REQUIREMENTS:

Plan III
At least 36-37 semester hours including course requirements in Career and Technical Education, Career Development (MHS 6340), Foundations of Educational Research (EDF 6481), Microcomputers in Education (EME 5403), and one Master's level Educational Foundations course. This M.A. degree program does not lead to the teacher certification.

Please be advised that program and/or course requirements are subject to change, per state legislative mandates, Florida Department of Education program approval standards, and accreditation criteria.

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

OTHER INFORMATION:
N/a
Chemical Engineering Program
M.Ch.E.

DEGREE INFORMATION
Type of Degree Offered:
Master of Chemical Engineering - M.Ch.E.

Concentrations Offered:
Chemical Engineering
Engineering (professional, non-thesis)
Engineering Science

Also offered as:
N/A

Program Status:  Active

CONTACT INFORMATION
Program Director:  Babu Joseph
Other Contact:  n/a
Phone:  813-974-3997
Fax:  813-974-3651
Email:  wolam@eng.usf.edu
Web Address:  http://che.eng.usf.edu/

Mailing Address:
University of South Florida
Chemical Engineering Program
4202 E. Fowler Avenue, ENB118
Tampa, FL  33620

PROGRAM INFORMATION
Contract Program for Information

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

Major Research Areas:
The Chemical Engineering faculty research and development interest cover a broad range of areas in reacting systems, thermodynamics, transport phenomena, systems engineering and characterization, all fundamental as well as applied in biomedical, materials including microelectronic, and environmental domains. Strong collaboration with the College of Medicine, Center of Microelectronic Research, as well as, Departments of Biology, Chemistry, Industrial Engineering, Civil Engineering, Mechanical Engineering, Electrical Engineering, and Computer Science makes most programs in Chemical engineering truly interdisciplinary. The Department offers core courses in thermodynamics, transport phenomena, reacting systems, math, and process analysis and modeling. A rich variety of electives are available regularly within the department as well as the University.

Chemical Engineering research facilities include modern laboratories for polymer synthesis and characterization, supercritical fluid technology, life sciences, process control, instrumentation, computer aided process design, and phase behavior.

ADMISSION INFORMATION
Program may have additional requirements; check before applying.

DEGREE PROGRAM REQUIREMENTS:
Contract Program for Information

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

OTHER INFORMATION:
N/a
Chemical Engineering Program
M.E.

DEGREE INFORMATION

Type of Degree Offered:
Master of Engineering - M.E.

Concentrations Offered:
Chemical Engineering
Engineering (professional, non-thesis)
Engineering Science

Also offered as:
N/A

Program Status: Active

CONTACT INFORMATION

Program Director: Babu Joseph
Other Contact: n/a
Phone: 813-974-3997
Fax: 813-974-3651
Email: wolam@eng.usf.edu
Web Address: http://che.eng.usf.edu/

Mailing Address:
University of South Florida
Department of Chemical Engineering
Chemical Engineering Program
4202 E. Fowler Avenue, ENB118
Tampa, FL 33620

PROGRAM INFORMATION

This degree is normally awarded to a Master's graduate who has an undergraduate degree in engineering or who has completed a prescribed series of undergraduate engineering courses, and completes an all coursework program.

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

Major Research Areas:
The Chemical Engineering faculty research and development interest cover a broad range of areas in reacting systems, thermodynamics, transport phenomena, systems engineering and characterization, all fundamental as well as applied in biomedical, materials including microelectronic, and environmental domains. Strong collaboration with the College of Medicine, Center of Microelectronic Research, as well as, Departments of Biology, Chemistry, Industrial Engineering, Civil Engineering, Mechanical Engineering, Electrical Engineering, and Computer Science makes most programs in Chemical engineering truly interdisciplinary.

The Department offers core courses in thermodynamics, transport phenomena, reacting systems, math, and process analysis and modeling. A rich variety of electives are available regularly within the department as well as the University.

Chemical Engineering research facilities include modern laboratories for polymer synthesis and characterization, supercritical fluid technology, life sciences, process control, instrumentation, computer aided process design, and phase behavior.

ADMISSION INFORMATION
Program may have additional requirements; check before applying.

DEGREE PROGRAM REQUIREMENTS:
Contact Program for information.

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

OTHER INFORMATION:
N/a
Chemical Engineering Program
M.S.Ch.E.

DEGREE INFORMATION

Type of Degree Offered:
Master of Science in Chemical Engineering - M.S.Ch.E.

Concentrations Offered:
Chemical Engineering
Engineering (professional, non-thesis)
Engineering Science

Also offered as:
N/A

Program Status: Active

CONTACT INFORMATION

Program Director: Babu Joseph
Other Contact: n/a
Phone: 813-974-3997
Fax: 813-974-3651
Email: wolam@eng.usf.edu
Web Address: http://che.eng.usf.edu/

Mailing Address:
University of South Florida
Department of Chemical Engineering
Chemical Engineering Program
4202 E. Fowler Avenue, ENB118
Tampa, FL 33620

PROGRAM INFORMATION

Contact Program for Information

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

Major Research Areas:
The Chemical Engineering faculty research and development interest cover a broad range of areas in reacting systems, thermodynamics, transport phenomena, systems engineering and characterization, all fundamental as well as applied in biomedical, materials including microelectronic, and environmental domains. Strong collaboration with the College of Medicine, Center of Microelectronic Research, as well as, Departments of Biology, Chemistry, Industrial Engineering, Civil Engineering, Mechanical Engineering, Electrical Engineering, and Computer Science makes most programs in Chemical engineering truly interdisciplinary.

The Department offers core courses in thermodynamics, transport phenomena, reacting systems, math, and process analysis and modeling. A rich variety of electives are available regularly within the department as well as the University.

Chemical Engineering research facilities include modern laboratories for polymer synthesis and characterization, supercritical fluid technology, life sciences, process control, instrumentation, computer aided process design, and phase behavior.

ADMISSION INFORMATION

Program may have additional requirements; check before applying.

DEGREE PROGRAM REQUIREMENTS:
Contact Program for Information

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

OTHER INFORMATION:
N/a
Chemical Engineering Program
M.S.E.S.

DEGREE INFORMATION

Type of Degree Offered:
Master of Engineering Science - M.S.E.S.

Concentrations Offered:
Chemical Engineering
Engineering (professional, non-thesis)
Engineering Science

Also offered as:
N/A

Program Status: Active

CONTACT INFORMATION

Program Director: Babu Joseph
Other Contact: n/a
Phone: 813-974-3997
Fax: 813-974-3651
Email: wolan@eng.usf.edu
Web Address: http://che.eng.usf.edu/

Mailing Address:
University of South Florida
Department of Chemical Engineering
Chemical Engineering Program
4202 E. Fowler Avenue, ENB118
Tampa, FL 33620

PROGRAM INFORMATION

This degree is normally awarded to a Master's graduate who has an undergraduate degree in engineering or who has a bachelor's degree from a non-engineering program and has completed a prescribed series of undergraduate engineering courses. It is a thesis program.

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

Major Research Areas:
The Chemical Engineering faculty research and development interest cover a broad range of areas in reacting systems, thermodynamics, transport phenomena, systems engineering and characterization, all fundamental as well as applied in biomedical, materials including microelectronics, and environmental domains. Strong collaboration with the College of Medicine, Center of Microelectronic Research, as well as, Departments of Biology, Chemistry, Industrial Engineering, Civil Engineering, Mechanical Engineering, Electrical Engineering, and Computer Science makes most programs in Chemical engineering truly interdisciplinary.

ADMISSION INFORMATION

Program may have additional requirements; check before applying.

DEGREE PROGRAM REQUIREMENTS:
Contact Program For Information

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

OTHER INFORMATION:
N/a
Chemical Engineering Program
Ph.D.

DEGREE INFORMATION

Type of Degree Offered:
Doctor of Philosophy - Ph.D.

Concentrations Offered:
Chemical Engineering
Engineering (professional, non-thesis)
Engineering Science

Also offered as:
N/A

Program Status: Active

CONTACT INFORMATION

Program Director: Babu Joseph
Other Contact: n/a
Phone: 813-974-3997
Fax: 813-974-3651
Email: wolam@eng.usf.edu
Web Address: http://che.eng.usf.edu/

Mailing Address:
University of South Florida
Department of Chemical Engineering
Chemical Engineering Program
4202 E. Fowler Avenue, ENB118
Tampa, FL 33620

PROGRAM INFORMATION

Contact Program for Information

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

Major Research Areas:
The Chemical Engineering faculty research and development interest cover a broad range of areas in reacting systems, thermodynamics, transport phenomena, systems engineering and characterization, all fundamental as well as applied in biomedical, materials including microelectronic, and environmental domains. Strong collaboration with the College of Medicine, Center of Microelectronic Research, as well as, Departments of Biology, Chemistry, Industrial Engineering, Civil Engineering, Mechanical Engineering, Electrical Engineering, and Computer Science makes most programs in Chemical engineering truly interdisciplinary. The Department offers core courses in thermodynamics, transport phenomena, reacting systems, math, and process analysis and modeling. A rich variety of electives are available regularly within the department as well as the University.

Chemical Engineering research facilities include modern laboratories for polymer synthesis and characterization, supercritical fluid technology, life sciences, process control, instrumentation, computer aided process design, and phase behavior.

ADMISSION INFORMATION

Program may have additional requirements; check before applying.

DEGREE PROGRAM REQUIREMENTS:
Contact Program for Information

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

OTHER INFORMATION:
N/a
Chemistry (non-thesis option) Program
M.A.

**DEGREE INFORMATION**

Type of Degree Offered:
Master of Arts - M.A. (non-thesis option)

Concentrations Offered:
Analytical Chemistry
Biochemistry
Computational Chemistry
Environmental Chemistry
Inorganic Chemistry
Organic Chemistry
Physical Chemistry
Polymer Chemistry

Also offered as:
N/A

Program Status: active

**CONTACT INFORMATION**

Program Director: Brian Space
Other Contact: n/a
Phone: 813-974-2144
Fax: 813-974-3203
Email: harmon@chuma1.cas.usf.edu
Web Address: http://www.cas.usf.edu/chemistry/new/

Mailing Address:
University of South Florida
Department of Chemistry
Chemistry (non-thesis option) Program
4202 E. Fowler Avenue, SCA400
Tampa, FL 33620

**PROGRAM INFORMATION**

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

Major Research Areas:
In addition to the 5 traditional areas, research opportunities also are available in such interdisciplinary and specialized areas as Bio-organic and Bio-inorganic Chemistry, Environmental Chemistry, Nuclear Magnetic Resonance Spectroscopy, Computer Modeling, Polymers, Photochemistry, Marine Chemistry, Medicinal Chemistry, Electrochemistry, Nucleic Acid Chemistry, and Enzymology.

The Department of Chemistry offers Doctor of Philosophy, Master of Science, and Non-thesis Master of Arts degrees. The Chemistry graduate faculty is comprised of 19 full-time senior faculty members, all holding the Ph.D. degree. The combination of a large and strong faculty with a wide variety of courses and electives provides students with programs of study that can be tailored to fit individual needs, while maintaining a sound background in all general aspects of Chemistry. The excellent research facilities and very low student-faculty ratio combine to afford unique opportunities for advanced study in Chemistry.

**ADMISSION INFORMATION**

Program may have additional requirements; check before applying.

**DEGREE PROGRAM REQUIREMENTS:**

General Program Requirements
Graduate students must maintain an overall grade point average (GPA) of 3.0 (B) in all courses. Any graduate student who falls below a 3.0 GPA at the end of any given semester will be placed on academic probation and has the next two semesters (excluding summers) to remedy the situation before being dismissed from the program. No grade below “C” will be accepted toward a graduate degree, but will be used in the computation of the overall GPA.

Enforcement of Minimum Standards:
The Graduate Council shall be responsible for ensuring that all graduate students meet the minimum standards as set down in the Graduate Student Handbook. The Graduate Coordinator will periodically review the standing of each student with regard to grade point average (GPA), academic progress, and (in the case of teaching assistants) teaching performance and notify the Graduate Council as necessary. Should disciplinary action appear in order, the student’s major professor will be consulted (in order to obtain as many relevant facts as possible) before such action is taken.

Probation:
Students who fail to meet the minimum GPA (3.0 for all graduate courses) shall be placed on probation. The student’s GPA must meet the minimum of 3.0 by the end of the semester in which probation was initiated or termination from the graduate program will result.
Appeals:
In actions based on departmental requirements, petitions and appeals shall be directed to the Chemistry Graduate Council through the student’s major professor. (In case of a student who has not yet selected a major professor, the appeal may be carried out through the Graduate Coordinator or through some other chemistry faculty member selected by the student.) Unsuccessful appeals to the Chemistry Graduate Council may be further carried to the chemistry faculty as a whole, and from there to the Dean of the College and then to the University Graduate Council if necessary.

Minimum Grades in Courses:
Although all grades in graduate level courses will be used in computing the student’s GPA, no grade below “C” may be counted toward fulfillment of the approved course of study. Consequently, any such course in which a student receives a grade below “C” must be repeated, or have the requirement waived by the Supervisory Committee. A student who receives three grades lower than a “B” in structured courses required by his supervisory committee to meet the structured course requirement will be dropped from the program. A student who receives a grade of “U” while a chemistry graduate student will be placed on automatic probation. A second “U” grade is grounds for termination from the Program, and the Chemistry Graduate Council will automatically review the student’s status. Students on probation are not excluded from having a teaching assistantships during the probationary semester.

Seminars:
All chemistry graduate students must satisfy the following minimum requirements for CHM 6935:

<table>
<thead>
<tr>
<th>Requirement</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>*enrollment every semester of the regular academic year during his/her career as a graduate student, or</td>
<td></td>
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<tr>
<td>*enrollment in seven (7) credit hours for the Ph.D.; four (4) credit hours for the Master's degree. A maximum of two unexcused absences will be permitted each semester, whichever is less. Under exceptional circumstances, students may petition for a waiver on a semester-by-semester basis if employment or other obligations conflict with the requirement.</td>
<td></td>
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</tbody>
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Master’s Degree General Requirements
Students must meet all degree requirements as specified by the Graduate School. Study for the M.A and the M.S. should take between two and three calendar years beyond the baccalaureate degree to complete. Specific requirements include: a minimum of thirty (30) credit hours beyond the baccalaureate degree; 16 hours must be at the 6000 level.

M.A. in Chemistry (Non-Thesis Option) Program Requirements
a. 26 hours must be in formally structured courses approved by the student’s committee.
b. Preparation of a review paper on a topic approved by the supervisory committee. The final paper must be approved by the supervisory committee.

COURSES:
See [http://www.ugs.usf.edu/sab/sabs.cfm](http://www.ugs.usf.edu/sab/sabs.cfm)

OTHER INFORMATION: n/a
Chemistry Program
M.S.

DEGREE INFORMATION

Type of Degree Offered:
Master of Science - M.S.

Concentrations Offered:
Analytical Chemistry
Biochemistry
Computational Chemistry
Environmental Chemistry
Inorganic Chemistry
Organic Chemistry
Physical Chemistry
Polymer Chemistry

Also offered as:
N/A

Program Status: Active

CONTACT INFORMATION

Program Director: Brian Space
Other Contact: n/a
Phone: 813-974-2144
Fax: 813-974-3203
Email: harmon@chuma1.cas.usf.edu
Web Address: http://www.cas.usf.edu/chemistry/new/

Mailing Address:
University of South Florida
Department of Chemistry
Chemistry Program
4202 E. Fowler Avenue, SCA400
Tampa, FL 33620

PROGRAM INFORMATION

The Department of Chemistry offers Doctor of Philosophy, Master of Science, and Non-thesis Master of Arts degrees. The Chemistry graduate faculty is comprised of 19 full-time senior faculty members, all holding the Ph.D. degree. The combination of a large and strong faculty with a wide variety of courses and electives provides students with programs of study that can be tailored to fit individual needs, while maintaining a sound background in all general aspects of Chemistry. The excellent research facilities and very low student-faculty ratio combine to afford unique opportunities for advanced study in Chemistry.

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

Major Research Areas:
In addition to the 5 traditional areas, research opportunities also are available in such interdisciplinary and specialized areas as Bio-organic and Bio-inorganic Chemistry, Environmental Chemistry, Nuclear Magnetic Resonance Spectroscopy, Computer Modeling, Polymers, Photochemistry, Marine Chemistry, Medicinal Chemistry, Electrochemistry, Nucleic Acid Chemistry, Enzymology, Materials Chemistry and Chemical Education.

ADMISSION INFORMATION
Program may have additional requirements; check before applying.

DEGREE PROGRAM REQUIREMENTS:

General Program Requirements
Graduate students must maintain an overall grade point average (GPA) of 3.0 (B) in all courses. Any graduate student who falls below a 3.0 GPA at the end of any given semester will be placed on academic probation and has the next two semesters (excluding summers) to remedy the situation before being dismissed from the program. No grade below “C” will be accepted toward a graduate degree, but will be used in the computation of the overall GPA.

Enforcement of Minimum Standards:
The Graduate Council shall be responsible for ensuring that all graduate students meet the minimum standards as set down in the Graduate Student Handbook. The Graduate Coordinator will periodically review the standing of each student with regard to grade point average (GPA), academic progress, and (in the case of teaching assistants) teaching performance and notify the Graduate Council as necessary. Should disciplinary action appear in order, the student’s major professor will be consulted (in order to obtain as many relevant facts as possible) before such action is taken.

Probation:
Students who fail to meet the minimum GPA (3.0 for all graduate courses) shall be placed on probation. The student’s GPA must meet the minimum of 3.0 by the end of the semester in which probation was initiated or termination from the graduate program will result.

Appeals:
In actions based on departmental requirements, petitions and appeals shall be directed to the Chemistry
Graduate Council through the student’s major professor. (In case of a student who has not yet selected a major professor, the appeal may be carried out through the Graduate Coordinator or through some other chemistry faculty member selected by the student.) Unsuccessful appeals to the Chemistry Graduate Council may be further carried to the chemistry faculty as a whole, and from there to the Dean of the College and then to the University Graduate Council if necessary.

Minimum Grades in Courses: Although all grades in graduate level courses will be used in computing the student’s GPA, no grade below “C” may be counted toward fulfillment of the approved course of study. Consequently, any such course in which a student receives a grade below “C” must be repeated, or have the requirement waived by the Supervisory Committee. A student who receives three grades lower than a “B” in structured courses required by his supervisory committee to meet the structured course requirement will be dropped from the program. A student who receives a grade of “U” while a chemistry graduate student will be placed on automatic probation. A second “U” grade is grounds for termination from the Program, and the Chemistry Graduate Council will automatically review the student’s status. Students on probation are not excluded from having a teaching assistantships during the probationary semester.

Seminars: All chemistry graduate students must satisfy the following minimum requirements for CHM 6935:

* enrollment every semester of the regular academic year during his/her career as a graduate student, or

* enrollment in seven (7) credit hours for the Ph.D.; four (4) credit hours for the Master’s degree. A maximum of two unexcused absences will be permitted each semester, whichever is less

Under exceptional circumstances, students may petition for a waiver on a semester-by-semester basis if employment or other obligations conflict with the requirement.

Master’s Degree General Requirements
Students must meet all degree requirements as specified by the Graduate School. Study for the M.A and the M.S. should take between two and three calendar years beyond the baccalaureate degree to complete. Specific requirements include: a minimum of thirty (30) credit hours beyond the baccalaureate degree; 16 hours must be at the 6000 level.

Program Requirements
a. 20 hours of formally structured courses approved by the student’s committee
b. a research project resulting in a written thesis
c. an oral thesis defense, which will serve as the final comprehensive examination required by the Graduate School

A graduate student working on a master’s degree in a program that requires a thesis must register in course CHM 6973 or CHM 6971 when engaged in research, data collection, or writing activities relevant to the master’s thesis. The number of credits in these courses must be appropriate to the demands made on faculty, staff, and university facilities.

Editor’s note: for information on the University’s enrollment policy relevant to a thesis, refer to the enrollment section of the Academic Policies in this catalog.

Final Thesis Defense:
Each student should consult with their supervisory committee for deadlines in submitting the thesis prior to the defense. Thesis or dissertation defense are not normally scheduled during final exam week or during the weeks between regularly scheduled sessions. The thesis defense must be scheduled through the Chemistry Graduate Office at least two weeks in advance. The Chemistry Graduate Office will then announce the defense to the entire Chemistry Department. The candidate normally defends their thesis in the fourth or fifth year.

NOTE: these deadlines are in addition to those imposed by the Graduate School. The Graduate School sets deadlines pertaining to thesis/dissertations each semester.

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

OTHER INFORMATION:
N/a
Chemistry Program
Ph.D.

DEGREE INFORMATION
Type of Degree Offered:
Doctor of Philosophy - Ph.D.

Concentrations Offered:
Analytical Chemistry
Biochemistry
Computational Chemistry
Environmental Chemistry
Inorganic Chemistry
Organic Chemistry
Physical Chemistry
Polymer Chemistry

Also offered as:
N/A

Program Status: Active

PROGRAM INFORMATION
The Department of Chemistry offers Doctor of Philosophy, Master of Science, and Non-thesis Master of Arts degrees. The Chemistry graduate faculty is comprised of 19 full-time senior faculty members, all holding the Ph.D. degree. The combination of a large and strong faculty with a wide variety of courses and electives provides students with programs of study that can be tailored to fit individual needs, while maintaining a sound background in all general aspects of Chemistry. The excellent research facilities and very low student-faculty ratio combine to afford unique opportunities for advanced study in Chemistry.

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

Major Research Areas:
In addition to the 5 traditional areas, research opportunities also are available in such interdisciplinary and specialized areas as Bio-organic and Bio-inorganic Chemistry, Environmental Chemistry, Nuclear Magnetic Resonance Spectroscopy, Computer Modeling, Polymers, Photochemistry, Marine Chemistry, Medicinal Chemistry, Electrochemistry, Nucleic Acid Chemistry, and Enzymology.

The Department of Chemistry offers Doctor of Philosophy, Master of Science, and Non-thesis Master of Arts degrees. The Chemistry graduate faculty is comprised of 19 full-time senior faculty members, all holding the Ph.D. degree. The combination of a large and strong faculty with a wide variety of courses and electives provides students with programs of study that can be tailored to fit individual needs, while maintaining a sound background in all general aspects of Chemistry. The excellent research facilities and very low student-faculty ratio combine to afford unique opportunities for advanced study in Chemistry.

ADMISSION INFORMATION
Program may have additional requirements; check before applying.

DEGREE PROGRAM REQUIREMENTS:
Entering students will have a Promotion to Candidacy Committee established upon entering the Ph.D. Program. The Committee advises students as to what courses they need to take in their first semester. There are no set course requirements, but the decision of the Committee is binding. Students will normally be expected to take the first semester of the first year covering “Tools of Research,” including literature search and analysis, proposal writing, oral presentation skills, and laboratory instrumental techniques. The second semester of the course may be required by a student’s promotion to Candidacy committee. Advanced courses in other subject areas may be assigned by the Committee, where appropriate. Final coursework decisions are made by the candidate’s research advisor.

Advisor Selection:
Students need to choose a pre-Ph.D. candidate research adviser by the beginning of the second semester to begin pre-candidate research in that laboratory (See below). The student will then proceed to initiate a research project by the beginning of the second semester and through the first summer of study. Selection of a research advisor is one of the most important decisions a student will make during the graduate career. In order to avoid hasty or poorly founded decisions each student must discuss potential research projects with at least three members of the chemistry faculty. Appropriate
forms can be obtained from the Chemistry Graduate Office and should be completed and returned no later than the end of the second semester (excluding summer semester) after entering the program.

Promotion to Candidacy:
At the conclusion of the first year (before the start of the third semester), a written research document outlining progress to date and future plans is submitted to and approved by the Promotion to candidacy Committee. This proposal is subsequently defended in front of the committee. A successful defense results in Promotion to Ph.D. Candidacy, contingent upon the student being formally accepted into a research group. The committee must vote three quarters in favor of the candidate (for a four person committee) or two thirds in favor (for a three person committee) for a pass. A vote of two or four members (or one of three) in favor results in a conditional pass, and the committee must set conditions to be met to promote the student within 30 days of the first meeting. At the discretion of the committee, the student not promoted to candidacy may be given a pass at a J.M.A. level of competency and proceed to obtain a terminal research master’s degree or be terminated from the program. Appropriate forms to document promotion to candidacy must be completed and forwarded to the Graduate School. The forms may be obtained from the Chemistry Graduate Office.

Dissertation Committee:
Upon promotion the candidate must formally choose and declare a research adviser and a dissertation committee must be established initially with at least three members. An additional committee member from outside the department or university must be added before the final defense. The research advisor chairs the committee.

Original Research Proposal: An original research proposal must be written and defended by the end of the first semester of the third year. At the discretion of the research adviser, the student’s original research proposal may or may not be related to the student’s current or future research. The student must be informed of the research adviser’s preference in advance of seeking approval for the thesis topic. The dissertation committee formally approves the proposal and its defense. The candidate should meet with the dissertation committee members (individually or as a group) to discuss the proposal topic. The original research proposal should follow the format of a major federal granting agency appropriate to the nature of the proposed research. The format of the proposal, in conjunction with the topic, should be approved in advance by the dissertation committee. The written proposal must be given to the dissertation committee members two weeks in advance of the scheduled defense. After the defense, the committee must vote three quarters in favor of the candidate (for a four person committee) or two thirds in favor (for a three person committee) for a pass. A vote of two of four members (or one of three) in favor results in a conditional pass, and the committee must set conditions to be met to pass the candidate within 30 days of the first meeting. Students not passing will normally be terminated from the Ph.D. program.

Research Data Presentation and Dissertation:
By the end of the fourth year, a research data presentation must be made to dissertation committee and the committee formally advises the candidate on research milestones that need to be met before permission to “write up” the dissertation is granted. The permission to “write up” the dissertation can be given at any subsequent time. A peer-reviewed publication based upon the dissertation research is required to obtain the degree of Ph.D. Note: Extenuating circumstances will be reviewed on a cases-by-case basis.

Final Dissertation Defense:
Each student should consult with their supervisory committee for deadlines in submitting the dissertation prior to the defense. Thesis or dissertation defense are not normally scheduled during final exam week or during the weeks between regularly scheduled sessions. The dissertation defense must be scheduled through the Chemistry Graduate Office at least two weeks in advance. The Chemistry Graduate Office will then announce the defense to the entire Chemistry Department. The candidate normally defends their dissertation in the fourth or fifth year.

NOTE: these deadlines are in addition to those imposed by the Graduate School. The Graduate School sets deadlines pertaining to thesis/dissertations each semester.

Candidates may be offered a departmental TA position in year five given satisfactory progress in research as judged by the dissertation committee and approval of the Department Chair. TA’s are not normally awarded beyond year 5. RA’s are only permitted beyond year six in exceptional cases with the written approval of the department chair. It is important to note that the Graduate School will not award tuition waivers for credit hours beyond 120 for students entering with a baccalaureate degree and 90 for students entering with a master’s degree.

Supervisory Committees: the M.S. and M.A. supervisory committee should consist of at least three members including the major professor, and two other chemistry faculty members, at least one of whom is outside the student’s major area (analytical, biochemistry, etc.) According to University Regulations, the Ph.D. supervisory committee must consist of at least four (4) members, including the student’s research director. At least two (2) of the members must be from an area related to the student’s research.

COURSES:
See [http://www.ugs.usf.edu/sab/sabs.cfm](http://www.ugs.usf.edu/sab/sabs.cfm)

OTHER INFORMATION: N/a
Civil Engineering Program
M.C.E.

DEGREE INFORMATION

Type of Degree Offered:
Master of Civil Engineering - M.C.E.

Concentrations Offered:
Geotechnical Engineering
Interdisciplinary Transportation
Materials Engineering and Science
Structural Engineering
Transportation Engineering
Water Resources

Also offered as:
N/A

Program Status: Active

CONTACT INFORMATION

Program Director: Ram M. Pendyala
Other Contact: n/a
Phone: 813-974-2275
Fax: 813-974-2957
Email: pendyala@eng.usf.edu
Web Address: http://ce.eng.usf.edu/

Mailing Address:
University of South Florida
Department of Civil and Environmental Engineering
Civil Engineering Program
4202 E. Fowler Avenue, ENB118
Tampa, FL 33620

PROGRAM INFORMATION

The field of Civil Engineering has long been known for its breadth and ability to adapt to the new technological needs of society. The traditional areas of public works, such as highways, bridges, water supply, building design, and wastewater treatment, remain very important. In addition, the modern area of managing the environment has been included in the Civil Engineering domain. Graduates of the programs are prepared for careers with public agencies or private industry and firms involved in planning, design, research and development, or regulation.

College computer facilities are available to all departmental students. In addition, the department has a variety of microcomputers available for student use. The department also has a high bay structures laboratory, which includes an MTS 250 kip testing machine. There are also well-equipped environmental, soils, pavement and hydraulics laboratories. These laboratories include equipment such as an ion chromatograph, atomic absorption unit, environmental chamber, constant rate of stress consolidometer, triaxial units and superpave testing equipment.

The M.C.E. degree provides a student with the opportunity to earn the advanced degree by coursework only. The MCE degree is intended for students who have at least two years of civil engineering related work experience prior to completion of degree requirements. The work experience should include the preparation of engineering reports. The student’s graduate advisor may require documentation of report writing ability before approving this degree. These degrees are recommended for part-time students who find it difficult to do thesis research because of their work commitment. Many of the department's graduate courses are offered on weekday evenings, which permits part-time and FEEDS (Florida Engineering Education Delivery System) students the opportunity to seek a graduate degree.

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

Major Research Areas: n/a

ADMISSION INFORMATION

Program may have additional requirements; check before applying - check website before applying.

DEGREE PROGRAM REQUIREMENTS:
The minimum coursework requirement for the Master of Engineering degrees is 33 credit hours.

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

OTHER INFORMATION:
N/a
Civil Engineering Program
M.E.

DEGREE INFORMATION

Type of Degree Offered:
Master of Engineering - M.E.

Concentrations Offered:
- Geotechnical Engineering
- Interdisciplinary Transportation
- Materials Engineering and Science
- Structural Engineering
- Transportation Engineering
- Water Resources

Also offered as:
N/A

Program Status: Active

CONTACT INFORMATION

Program Director: Ram M. Pendyala
Other Contact: n/a
Phone: 813-974-2275
Fax: 813-974-2957
Email: pendyala@eng.usf.edu
Web Address: http://ce.eng.usf.edu/

Mailing Address:
University of South Florida
Department of Civil and Environmental Engineering
Civil Engineering Program
4202 E. Fowler Avenue, ENB118
Tampa, FL 33620

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College computer facilities are available to all departmental students. In addition, the department has a variety of microcomputers available for student use. The department also has a high bay structures laboratory, which includes an MTS 250 kip testing machine. There are also well-equipped environmental, soils, pavement and hydraulics laboratories. These laboratories include equipment such as an ion chromatograph, atomic absorption unit, environmental chamber, constant rate of stress consolidometer, triaxial units and superpave testing equipment.

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

Major Research Areas: n/a

ADMISSION INFORMATION

Program may have additional requirements; check before applying - check website before applying.

DEGREE PROGRAM REQUIREMENTS:
Contact program for information

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

OTHER INFORMATION:
N/a
Civil Engineering Program
M.S.C.E.

DEGREE INFORMATION

Type of Degree Offered:
Master of Science in Civil Engineering - M.S.C.E.

Concentrations Offered:
Geotechnical Engineering
Interdisciplinary Transportation
Materials Engineering and Science
Structural Engineering
Transportation Engineering
Water Resources

Also offered as: N/A

Program Status: Active

CONTACT INFORMATION

Program Director: Ram M. Pendyala
Other Contact: n/a
Phone: 813-974-2275
Fax: 813-974-2957
Email: pendyala@eng.usf.edu
Web Address: http://ce.eng.usf.edu/

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University of South Florida
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4202 E. Fowler Avenue, ENB118
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The field of Civil Engineering has long been known for its breadth and ability to adapt to the new technological needs of society. The traditional areas of public works, such as highways, bridges, water supply, building design, and wastewater treatment, remain very important. In addition, the modern area of managing the environment has been included in the Civil Engineering domain. Graduates of the programs are prepared for careers with public agencies or private industry and firms involved in planning, design, research and development, or regulation.

College computer facilities are available to all departmental students. In addition, the department has a variety of microcomputers available for student use. The department also has a high bay structures laboratory, which includes an MTS 250 kip testing machine. There are also well-equipped environmental, soils, pavement and hydraulics laboratories. These laboratories include equipment such as an ion chromatograph, atomic absorption unit, environmental chamber, constant rate of stress consolidometer, triaxial units and superpave testing equipment.

The MSCE is a research orientated degree in which the student writes, as a major part of the degree requirements, a thesis that defines, examines, and reports in depth on a subject area relevant to engineering. The purpose of the thesis is to instill in the student the ability to inspect, evaluate, and report on a subject of interest to the engineering profession.

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

Major Research Areas: n/a

ADMISSION INFORMATION

Program may have additional requirements; check before applying - check website before applying.

DEGREE PROGRAM REQUIREMENTS:
The programs consist of a minimum of 24 credit hours of coursework and 6 credit hours of thesis.

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

OTHER INFORMATION:
N/a
Civil Engineering Program
M.S.E.S.

DEGREE INFORMATION

Type of Degree Offered:
Master of Science in Engineering Science - M.S.E.S.

Concentrations Offered:
Geotechnical Engineering
Interdisciplinary Transportation
Materials Engineering and Science
Structural Engineering
Transportation Engineering
Water Resources

Also offered as:
N/A

Program Status: Active

CONTACT INFORMATION

Program Director: Ram M. Pendyala
Other Contact: n/a
Phone: 813-974-2275
Fax: 813-974-2957
Email: pendyala@eng.usf.edu
Web Address: http://ce.eng.usf.edu/

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Civil Engineering Program
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College computer facilities are available to all departmental students. In addition, the department has a variety of microcomputers available for student use. The department also has a high bay structures laboratory, which includes an MTS 250 kip testing machine. There are also well-equipped environmental, soils, pavement and hydraulics laboratories. These laboratories include equipment such as an ion chromatograph, atomic absorption unit, environmental chamber, constant rate of stress consolidometer, triaxial units and superpave testing equipment.

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

Major Research Areas: n/a

ADMISSION INFORMATION

Program may have additional requirements; check before applying - check website before applying.

DEGREE PROGRAM REQUIREMENTS:
Contact Program for information.

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

OTHER INFORMATION:
N/a
Civil Engineering Program
Ph.D.

DEGREE INFORMATION

Type of Degree Offered: Doctor of Philosophy - Ph.D.

Concentrations Offered:
- Geotechnical Engineering
- Interdisciplinary Transportation
- Materials Engineering and Science
- Structural Engineering
- Transportation Engineering
- Water Resources

Also offered as: N/A

Program Status: Active

CONTACT INFORMATION

Program Director: Ram M. Pendyala
Other Contact: n/a
Phone: 813-974-2275
Fax: 813-974-2957
Email: pendyala@eng.usf.edu
Web Address: http://ce.eng.usf.edu/

Mailing Address:
University of South Florida
Department of Civil and Environmental Engineering
Civil Engineering Program
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Tampa, FL 33620

PROGRAM INFORMATION

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College computer facilities are available to all departmental students. In addition, the department has a variety of microcomputers available for student use. The department also has a high bay structures laboratory, which includes an MTS 250 kip testing machine. There are also well-equipped environmental, soils, pavement and hydraulics laboratories. These laboratories include equipment such as an ion chromatograph, atomic absorption unit, environmental chamber, constant rate of stress consolidometer, triaxial units and superpave testing equipment.

The Ph.D. degree is awarded in recognition of demonstrated scholarly competence and ability to conduct and report original and significant research. Ph.D. students may work in all of the areas of Civil Engineering: Engineering Mechanics, Environmental Engineering, Geotechnical Engineering, Pavement Engineering, Materials Engineering and Science, Structural Engineering, Transportation Engineering and Planning, and Water Resources Engineering.

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

Major Research Areas: n/a

ADMISSION INFORMATION

Program may have additional requirements; check before applying - check website before applying.

DEGREE PROGRAM REQUIREMENTS:
The program consists of a minimum of 60 credits of coursework beyond the bachelor’s degree and 30 credits of dissertation/research.

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

OTHER INFORMATION:
N/a
Classics (Co-op) Program
M.A.

DEGREE INFORMATION
Type of Degree Offered:
Master of Arts - M.A. (Co-Op Program with U.F.)
Concentrations Offered: n/a
Also offered as: n/a
Program Status: n/a

CONTACT INFORMATION
Program Director: Ava Chitwood
Other Contact: n/a
Phone: 813-974-2547
Fax: n/a
Email: n/a
Web Address: http://www.cas.usf.edu/classics/contact.html

Mailing Address:
University of South Florida
Classics (co-op) Program
4202 E. Fowler Avenue,
Tampa, FL 33620

PROGRAM INFORMATION
Joint Co-op program with University of Florida
Accreditation: Contact Program for information.
Major Research Areas: n/a

ADMISSION INFORMATION
Program may have additional admission requirements. Check before applying.

DEGREE PROGRAM REQUIREMENTS:
Check with Program for information.

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

OTHER INFORMATION:
N/a
Communication Program
M.A.

DEGREE INFORMATION
Type of Degree Offered:
Master of Arts - M.A.

Concentrations Offered:
N/A

Also offered as:
N/A

Program Status: Active

CONTACT INFORMATION
Program Director: Gilbert Rodman
Other Contact: n/a
Phone: 813-974-2145
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Web Address: http://www.cas.usf.edu/communication/

Mailing Address:
University of South Florida
Department of Communication
Communication Program
4202 E. Fowler Avenue, CIS1040
Tampa, FL 33620

PROGRAM INFORMATION
The Department of Communication offers a broad and integrated approach to communication studies that embraces the traditions of the humanities, the convergence of rhetorical and communication theory, and the relations among aesthetic, humanistic, and scientific approaches to inquiry. Students are encouraged to examine the pragmatics of rhetorical and communication theory in such settings as business and industry, government, education, medicine and health care, media, the arts, and the family. The department offers course work leading to the Master of Arts degree and the Doctor of Philosophy.

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

Major Research Areas:
N/a

ADMISSION INFORMATION
Program may have additional requirements; check before applying.

DEGREE PROGRAM REQUIREMENTS:
Core Requirements (3 hours)
COM 6001 (3)
This course must be taken the first time it is offered after the student is admitted to the graduate program.

Thesis Program (36 hours) - In addition to the 3 hours of core requirements, each student must also take COM 7325 and complete 24 hours of elective course work, 3 hours of which may consist of a course or courses from other departments within this or other universities, and must have advisor approval. Each student must complete at least 6 hours of thesis credit (SPC 6971) and submit an approved thesis.

Non-Thesis Program (36 hours) - In addition to the 3 hours of core requirements, 33 hours of elective course work are required, 9 of which may be taken as a cognate area of study pending advisor approval and an approved plan of study.

Comprehensive Examinations - All students must pass both written and oral comprehensive examinations.

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

OTHER INFORMATION:
N/a
# Communication Program

## Ph.D.

### DEGREE INFORMATION

**Type of Degree Offered:**
Doctor of Philosophy - Ph.D.

**Concentrations Offered:**
N/A

**Also offered as:**
N/A

**Program Status:** Active

### CONTACT INFORMATION

<table>
<thead>
<tr>
<th>Program Director</th>
<th>Gilbert Rodman</th>
</tr>
</thead>
<tbody>
<tr>
<td>Other Contact</td>
<td>n/a</td>
</tr>
<tr>
<td>Phone</td>
<td>813-974-2145</td>
</tr>
<tr>
<td>Fax</td>
<td>813-974-6817</td>
</tr>
<tr>
<td>Email</td>
<td><a href="mailto:grodman@chuma.cas.usf.edu">grodman@chuma.cas.usf.edu</a></td>
</tr>
<tr>
<td>Web Address</td>
<td><a href="http://www.cas.usf.edu/communication/">http://www.cas.usf.edu/communication/</a></td>
</tr>
</tbody>
</table>

**Mailing Address:**
University of South Florida
Department of Communication
Communication Program
4202 E. Fowler Avenue, CIS1040
Tampa, FL 33620

### PROGRAM INFORMATION

The Department of Communication offers a broad and integrated approach to communication studies that embraces the traditions of the humanities, the convergence of rhetorical and communication theory, and the relations among aesthetic, humanistic, and scientific approaches to inquiry. Students are encouraged to examine the pragmatics of rhetorical and communication theory in such settings as business and industry, government, education, medicine and health care, media, the arts, and the family. The department offers course work leading to the Master of Arts degree and the Doctor of Philosophy.

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

**Major Research Areas:**
N/A

### ADMISSION INFORMATION

Program may have additional requirements; check before applying.

### DEGREE PROGRAM REQUIREMENTS:

**Core Requirements (6 hours)**
COM 6001 (3) COM 7325 (3)

In addition to the 6 hours of core requirements, students are required to take a minimum of 39 hours of coursework beyond the M.A. degree (not counting credits for dissertation research). Completion of the Ph.D. program in Communication normally requires a minimum of three years with at least one year in continuous full-time residence. To qualify for graduation from the Ph.D. program in Communication, a student must complete the following:

1. Establish a supervisory faculty committee approved by the Director of Graduate Studies and the Dean of the Office 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 of the central domains of communication study;
   (b) expertise in the research methodologies needed to carry out original research in the specialized area of concentration and;
   (c) 6 hours of coursework in an area of study outside the department.
3. Pass a written qualifying examination covering the student's area of specialization and methodological competence by the end of coursework. This examination will be prepared and evaluated by the student's supervisory committee.
4. Complete and defend a dissertation approved by the student's dissertation committee that must include at least one member of the graduate faculty outside the Department.

### COURSES:

See [http://www.ugs.usf.edu/sab/sabs.cfm](http://www.ugs.usf.edu/sab/sabs.cfm)

### OTHER INFORMATION:

N/a
Communication Sciences and Disorders Program
Ph.D.

DEGREE INFORMATION

Type of Degree Offered:
Doctor of Philosophy - Ph.D.

Concentrations Offered:
Hearing Sciences and Audiology
Neurocommunicative Sciences
Speech-Language Sciences

Also offered as:
N/A

Program Status: Active

CONTACT INFORMATION

Program Director: Arthur M. Guilford
Other Contact: n/a
Phone: 813-974-2006
Fax: 813-974-0822
Email: silliman@chuma1.cas.usf.edu
Web Address: http://www.cas.usf.edu/csd/index.htm

Mailing Address:
University of South Florida
Communication Sciences and Disorders
Communication Sciences and Disorders Program
4202 E. Fowler Avenue, PCD1017
Tampa, FL  33620

PROGRAM INFORMATION

The Department of Communication Sciences and Disorders is devoted to the study of normal and disordered human communication. Courses and practice provide the student with principles, research methods and application of knowledge about the spectrum of verbal and non-verbal communication. Diagnosis and remediation of communicative problems dominate the clinical component of this course of study.

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

Major Research Areas:
N/A

ADMISSION INFORMATION

Program may have additional requirements; check before applying.

DEGREE PROGRAM REQUIREMENTS:

Students will complete required and elective courses in the following areas:
1) research and tools of research 15 credits
2) doctoral seminar 2 credits
3) core content 12 credits
4) concentration or specialized study 15 credits
5) cognate area 9 credits
6) dissertation 12-24 credits

Students are encouraged to contact the Department Chair for additional information regarding this new doctoral program.

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

OTHER INFORMATION:
N/a
Computer Engineering Program  
M.C.P.

DEGREE INFORMATION

Type of Degree Offered: Master of Computer Engineering - M.C.P.

Concentrations Offered: N/A

Also offered as: N/A

Program Status: Active

CONTACT INFORMATION

Program Director: Rafael Perez
Other Contact: n/a
Phone: 813-974-3033
Fax: 813-974-5456
Email: gradvisor@csee.usf.edu
Web Address: http://www.csee.usf.edu/

Mailing Address:
University of South Florida
Department of Computer Science and Engineering
Computer Engineering Program
4202 E. Fowler Avenue, ENB118
Tampa, FL 33620

PROGRAM INFORMATION

The department offers opportunities for study and research in all areas fundamental to Computer Science and Engineering. In addition to the vast array of college-wide computer facilities, the Department has a 100Mbit local area network consisting of PC’s, more than seventy Sun SPARC workstations, and multiple printers. The network provides connectivity to Internet 2. The department’s facilities also include a microprocessor laboratory, a hardware/architecture laboratory, and PC-compatible laboratory for instructional use.

There are specialized laboratories for research in Artificial Intelligence, Computer Graphics, Computer Networks, Robotics, Software Engineering, and VLSI design. These laboratories provide access to special purpose hardware and software including high-performance servers, graphics workstations, various imaging sensors including Cyberware, parallel machines, multiple robotics platforms, and specialized software packages. Engineering Computing operates large open access PC labs and SUN Servers for the College of Engineering. Some graduate courses offered by the department are available to practicing engineers through the FEEDS (Florida Engineering Education Delivery System) program.

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

Major Research Areas:
An excellent selection of courses and laboratories support undergraduate and graduate studies in Artificial intelligence, coding theory, computer architecture, computer graphics, computer networks, computer vision, expert systems, fault-tolerant computing, human-computer interface, image processing, robotics, software engineering, and VLSI design.

ADMISSION INFORMATION

Program may have additional requirements; check before applying.

DEGREE PROGRAM REQUIREMENTS:
Contact Computer Science and Engineering for Information

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

OTHER INFORMATION:
N/a
Computer Engineering Program
M.E.

DEGREE INFORMATION

Type of Degree Offered:
Master of Engineering - M.E.

Concentrations Offered:
N/A

Also offered as:
N/A

Program Status: Active

CONTACT INFORMATION

Program Director: Rafael Perez
Other Contact: n/a
Phone: 813-974-3033
Fax: 813-974-5456
Email: gradvisor@csee.usf.edu
Web Address: http://www.csee.usf.edu/

Mailing Address:
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Department of Computer Science and Engineering
Computer Engineering Program
4202 E. Fowler Avenue, ENB118
Tampa, FL 33620

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ADMISSION INFORMATION

Program may have additional requirements; check before applying.

DEGREE PROGRAM REQUIREMENTS:
Contact Computer Science and Engineering for Information

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

OTHER INFORMATION:
N/a
Computer Engineering Program
M.S.C.P.

DEGREE INFORMATION

Type of Degree Offered:
Master of Science in Computer Engineering - M.S.C.P.

Concentrations Offered:
N/A

Also offered as:
N/A

Program Status:
Active

CONTACT INFORMATION

Program Director:
Rafael Perez

Other Contact:
n/a

Phone:
813-974-3033

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

Major Research Areas:
An excellent selection of courses and laboratories support undergraduate and graduate studies in Artificial intelligence, coding theory, computer architecture, computer graphics, computer networks, computer vision, expert systems, fault-tolerant computing, human-computer interface, image processing, robotics, software engineering, and VLSI design.

ADMISSION INFORMATION

Program may have additional requirements; check before applying.

DEGREE PROGRAM REQUIREMENTS:
Contact Computer Science and Engineering for Information

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

OTHER INFORMATION:
N/a
Computer Engineering Program
M.S.E.S.

DEGREE INFORMATION

Type of Degree Offered:
Master of Science in Engineering Science - M.S.E.S.

Concentrations Offered:
N/A

Also offered as:
N/A

Program Status: Active

CONTACT INFORMATION

Program Director: Rafael Perez
Other Contact: n/a
Phone: 813-974-3033
Fax: 813-974-5456
Email: gradvisor@csee.usf.edu
Web Address: http://www.csee.usf.edu/

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Computer Engineering Program
4202 E. Fowler Avenue, ENB118
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Accreditation:
Accredited by the Commission on Colleges of the Southern Association of College and Schools.

Major Research Areas:
An excellent selection of courses and laboratories support undergraduate and graduate studies in Artificial intelligence, deductive theory, computer architecture, computer graphics, computer networks, computer vision, expert systems, fault-tolerant computing, human-computer interface, image processing, robotics, software engineering, and VLSI design.

ADMISSION INFORMATION

Program may have additional requirements; check before applying.

DEGREE PROGRAM REQUIREMENTS:
Contact Computer Science and Engineering for Information

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

OTHER INFORMATION:
N/a
Computer Science Program
M.C.S.

DEGREE INFORMATION

Type of Degree Offered:
Master of Computer Science - M.C.S.

Concentrations Offered:
N/A

Also offered as:
N/A

Program Status:  Active

CONTACT INFORMATION

Program Director: Rafael Perez
Other Contact: n/a
Phone: 813-974-3033
Fax: 813-974-5456
Email: gradvisor@csee.usf.edu
Web Address: http://www.csee.usf.edu/

Mailing Address:
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Department of Computer Science and Engineering
Computer Science Program
4202 E. Fowler Avenue, ENB118
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Accreditation:
Accredited by the Commission on Colleges of the Southern Association of College and Schools.

Major Research Areas:
An excellent selection of courses and laboratories support undergraduate and graduate studies in Artificial intelligence, doing theory, computer architecture, computer graphics, computer networks, computer vision, expert systems, fault-tolerant computing, human-computer interface, image processing, robotics, software engineering, and VLSI design.

ADMISSION INFORMATION
Program may have additional requirements; check before applying.

DEGREE PROGRAM REQUIREMENTS:
Contact Computer Science and Engineering for Information

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

OTHER INFORMATION:
N/a
# Computer Science Program
## M.E.

## DEGREE INFORMATION

**Type of Degree Offered:**
Master of Engineering - M.E.

**Concentrations Offered:**
N/A

**Also offered as:**
N/A

**Program Status:** Active

## CONTACT INFORMATION

**Program Director:** Rafael Perez

**Other Contact:** n/a

**Phone:** 813-974-3033

**Fax:** 813-974-5456

**Email:** gradvisor@csee.usf.edu

**Web Address:** [http://www.csee.usf.edu/](http://www.csee.usf.edu/)

**Mailing Address:**
University of South Florida
Department of Computer Science and Engineering
Computer Science Program
4202 E. Fowler Avenue, ENB118
Tampa, FL 33620

## PROGRAM INFORMATION

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**Accreditation:**
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An excellent selection of courses and laboratories support undergraduate and graduate studies in Artificial intelligence, coding theory, computer architecture, computer graphics, computer networks, computer vision, expert systems, fault-tolerant computing, human-computer interface, image processing, robotics, software engineering, and VLSI design.

**ADMISSION INFORMATION**
Program may have additional requirements; check before applying.

**DEGREE PROGRAM REQUIREMENTS:**
Contact Computer Science and Engineering for Information

**COURSES:**
See [http://www.ugs.usf.edu/sab/sabs.cfm](http://www.ugs.usf.edu/sab/sabs.cfm)

**OTHER INFORMATION:**
N/a
Computer Science Program
M.S.C.S.

DEGREE INFORMATION

Type of Degree Offered:
Master of Science in Computer Science - M.S.C.S.

Concentrations Offered:
N/A

Also offered as:
N/A

Program Status:  Active

CONTACT INFORMATION

Program Director:  Rafael Perez
Other Contact:  n/a
Phone:  813-974-3033
Fax:  813-974-5456
Email:  gradvisor@csee.usf.edu
Web Address:  http://www.csee.usf.edu/

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Tampa, FL  33620

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

Major Research Areas:
An excellent selection of courses and laboratories support undergraduate and graduate studies in Artificial intelligence, coding theory, computer architecture, computer graphics, computer networks, computer vision, expert systems, fault-tolerant computing, human-computer interface, image processing, robotics, software engineering, and VLSI design.

ADMISSION INFORMATION

Program may have additional requirements; check before applying.

DEGREE PROGRAM REQUIREMENTS:
Contact Computer Science and Engineering for Information

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

OTHER INFORMATION:
N/a
Computer Science Program
M.S.E.S.

DEGREE INFORMATION

Type of Degree Offered:
Master of Science in Engineering Science - M.S.E.S.

Concentrations Offered:
N/A

Also offered as:
N/A

Program Status:  Active

CONTACT INFORMATION

Program Director:  Rafael Perez
Other Contact:  n/a
Phone:  813-974-3033
Fax:  813-974-5456
Email:  gradvisor@csee.usf.edu
Web Address:  http://www.csee.usf.edu/

Mailing Address:
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Department of Computer Science and Engineering
Computer Science Program
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Accreditation:
Accredited by the Commission on Colleges of the Southern Association of College and Schools.

Major Research Areas:
An excellent selection of courses and laboratories support undergraduate and graduate studies in Artificial intelligence, doing theory, computer architecture, computer graphics, computer networks, computer vision, expert systems, fault-tolerant computing, human-computer interface, image processing, robotics, software engineering, and VLSI design.

ADMISSION INFORMATION

Program may have additional requirements; check before applying.

DEGREE PROGRAM REQUIREMENTS:
Contact Computer Science and Engineering for Information

COURSES:
See http://www.ugs.usf.edu/sab/sabscfm

OTHER INFORMATION:
N/A
Computer Science and Engineering Program
Ph.D.

DEGREE INFORMATION

Type of Degree Offered:
Doctor of Philosophy - Ph.D.

Concentrations Offered:
N/A

Also offered as:
N/A

Program Status:  Active

CONTACT INFORMATION

Program Director: Rafael Perez
Other Contact: n/a
Phone: 813-974-3033
Fax: 813-974-5456
Email: gradvisor@csee.usf.edu
Web Address: http://www.csee.usf.edu/

Mailing Address:
University of South Florida
Department of Computer Science and Engineering
Computer Science and Engineering Program
4202 E. Fowler Avenue, ENB118
Tampa, FL 33620

PROGRAM INFORMATION

The department offers opportunities for study and research in all areas fundamental to Computer Science and Engineering. In addition to the vast array of college-wide computer facilities, the Department has a 100Mbit local area network consisting of PC’s, more than seventy Sun SPARC workstations, and multiple printers. The network provides connectivity to Internet 2. The department’s facilities also include a microprocessor laboratory, a hardware/architecture laboratory, and PC-compatible laboratory for instructional use.

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

Major Research Areas:
An excellent selection of courses and laboratories support undergraduate and graduate studies in Artificial intelligence, doing theory, computer architecture, computer graphics, computer networks, computer vision, expert systems, fault-tolerant computing, human-computer interface, image processing, robotics, software engineering, and VLSI design.

ADMISSION INFORMATION
Program may have additional requirements; check before applying.

DEGREE PROGRAM REQUIREMENTS:
Contact Computer Science and Engineering for Information

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

OTHER INFORMATION:
N/a
Criminology Program

M.A.

DEGREE INFORMATION

Type of Degree Offered:
Master of Arts - M.A.

Concentrations Offered:
Criminological Theory
Delinquency
Substance Use/Abuse
Urban Law Enforcement
Violence

Also offered as:
N/A

Program Status: Active

CONTACT INFORMATION

Program Director: Tom Mieczkowski
Other Contact: n/a
Phone: 813-974-2815
Fax: 813-974-2803
Email: mieczkow@chuma1.cas.usf.edu
Web Address: http://www.cas.usf.edu/criminology

Mailing Address:
University of South Florida
Department of Criminology
Criminology Program
4202 E. Fowler Avenue, SOC107
Tampa, FL 33620

PROGRAM INFORMATION

The M.A. in Criminology is a two-year program designed to provide the student with an in depth understanding of the major ideas, issues, theories, and research comprising the field of Criminology and Criminal Justice.

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

Major Research Areas:
N/A

ADMISSION INFORMATION

Program may have additional requirements; check before applying.

DEGREE PROGRAM REQUIREMENTS:

All course work counted toward the degree must have the prior approval of the Graduate Program Director of the Department of Criminology. Such work may include up to 6 hours outside the department.

Thesis
33 hours of CCJ course work, which must include:
CCJ 6605 (4) CCJ 6705(4)
CCJ 6706(4) CCJ 6707 (4) CCJ 6050 (1)** CCJ 6971 (6)
Electives (9)

The thesis will consist of research which makes an original contribution to the scholarly literature and which may be of either a quantitative or qualitative nature. An oral defense of the thesis is required after the final draft of the thesis has been accepted by the candidate's supervisory committee.

Non-Thesis: Comprehensive Examination
33 hours of CCJ course work, which must include:
CCJ 6605 (4) CCJ 6705(4)
CCJ 6706(4) CCJ 6707 (4) CCJ 6050 (1)** CCJ 6974 (3)
CCJ 6905 (3) Elective (12)
** Should be taken during the first semester of the program.

The Non-Thesis Comprehensive Examination Option is intended primarily for students who do not intend to continue their graduate education beyond the M.A. degree. In the Comprehensive Exam option, students will learn to assess the practical applications of theory and research to policy and program development. As they complete their graduate studies, students will also demonstrate their understanding of the research process and its implications for criminal justice through a comprehensive examination.

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

OTHER INFORMATION:
N/a
Criminology Program
Ph.D.

DEGREE INFORMATION

Type of Degree Offered:
Doctor of Philosophy - Ph.D.

Concentrations Offered:
Criminological Theory
Delinquency
Substance Use/Abuse
Urban Law Enforcement
Violence

Also offered as:
N/A

Program Status: Active

CONTACT INFORMATION

Program Director: Tom Mieczkowski
Other Contact: n/a
Phone: 813-974-2815
Fax: 813-974-2803
Email: mieczkow@chuma1.cas.usf.edu
Web Address:
http://www.cas.usf.edu/criminology/

Mailing Address:
University of South Florida
Department of Criminology
Criminology Program
4202 E. Fowler Avenue, SOC107
Tampa, FL 33620

PROGRAM INFORMATION

The Ph.D. is a research degree granted in recognition of high achievement in criminology. This achievement requires accomplishments beyond the completion of coursework that demonstrate the ability to work independently and contribute to criminological knowledge.

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

Major Research Areas:
N/A

ADMISSION INFORMATION

Program may have additional requirements; check before applying.

DEGREE PROGRAM REQUIREMENTS:
A total of 90 hours beyond the B.A./B.S., of which a minimum of 57* hours must be completed at USF. The 90 hours required for the Ph.D. are as follows:
1. 21 core hours CCJ 6050 (2) CCJ 6605 (4) CCJ 6705(4), CCJ 6706(4) CCJ 6707 (4), and CCJ 6708 (3);
2. 36 elective hours, 9 of which must be in an area outside the department;
3. 6 hours meeting the Research Tool Requirement (see below);
4. 24 dissertation hours.

(*Contact the Program Director to determine the minimum number of hours needed in your individual case.)

In addition to successfully completing these requirements, students are required to pass two doctoral comprehensive examinations, complete residency requirements (9 hours each in the fall and spring, and 3 hours in the summer of the first year), and write and defend a dissertation prospectus and dissertation.

Tool Requirement - In order to satisfy the department's research tool requirement, students in criminology must complete either a foreign language competency examination, or two of the following three courses (CCJ 6708, CCJ 6709, CCJ 6716).

Comprehensive Examinations - Students take two comprehensive examinations: (1) general comprehensive, and (2) specialty comprehensive. The general comprehensive is an in-class examination that assesses the student's ability to employ theory, research methods, and statistics of research to address two problems selected by the faculty. The specialty comprehensive is constructed by the student's doctoral committee, and may include in-class, written take-home, written research, or oral examination formats.

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

OTHER INFORMATION:
N/a
Curriculum and Instruction Program
M.Ed.

DEGREE INFORMATION

Type of Degree Offered:
Master of Education – M.Ed.

Concentrations Offered:
Concentrations offered under the Curriculum and Instruction Degree Program with degree level indicated in parentheses:
- Adult Education (M.Ed., Ed.S., Ph.D.)
- Business & Office Education (M.Ed.)
- College Student Affairs (M.Ed.)
- Counselor Education (Ed.S., Ph.D.)
- Distributive Education (M.Ed.)
- Early Childhood Education (M.Ed., Ed.S., Ph.D.)
- Elementary Education (M.Ed., Ed.S., Ph.D.)
- English Education (M.Ed., Ph.D.)
- Foreign Language Education (M.Ed.)
- Higher Education, Administration (Ed.S., Ph.D.)
- Higher Education, Community College Teaching (Ed.S., Ph.D.)
- Industrial Arts - Technology Education (M.Ed.)
- Instructional Technology (M.Ed., Ed.S., Ph.D.)
- Interdisciplinary Education (M.Ed., Ed.S., Ph.D.)
- Interdisciplinary Ed., Sec Lang Acquisition (Ph.D.)
- Mathematics Education (M.Ed., Ed.S., Ph.D.)
- Measurement and Evaluation (M.Ed., Ed.S., Ph.D.)
- Middle School Education - General (M.Ed.)
- Middle School Education - Math (M.Ed.)
- Middle School Education - Science (M.Ed.)
- Middle School Education - English (M.Ed.)
- Middle School Education - Social Studies (M.Ed.)
- Music Education (Ed.S., Ph.D.)
- Reading Education (M.Ed.)
- Reading / Language Arts Education (Ed.S., Ph.D.)
- School Psychology (Ed.S., Ph.D.)
- Science Education (Ed.S., Ph.D.)
- Science Education - Biology (M.Ed.)
- Science Education - Chemistry (M.Ed.)
- Science Education - Physics (M.Ed.)
- Secondary Education (Ph.D.)

CONTACT INFORMATION

Program Director: 
Contact appropriate department
Other Contact: 
n/a
Phone: 
Contact Dept that offers concentration
Fax: 
n/a
Email: 
see department of interest
Web Address: 
http://www.coedu.usf.edu/college/

Mailing Address:
University of South Florida
Curriculum and Instruction
Curriculum and Instruction Program
4202 E. Fowler Avenue, EDU162
Tampa, FL 33620

Concentrations Continued:
- Social Science Education (M.Ed.)
- Special Education (Ed.S., Ph.D.)
- Special Education - Behavior Disorders (M.Ed.)
- Special Education - Gifted (M.Ed.)
- Special Education - Mental Retardation (M.Ed.)
- Special Education - Specific Learning Disabilities (M.Ed.)
- Special Education - Motor Disabilities (M.Ed.)
- Student Affairs Administration (Ph.D.)
- Theater Education (M.Ed.)
- Vocational Education (Ed.S., Ph.D.) - not accepting students

Also offered as: 
N/A

Program Status: 
Active

PROGRAM INFORMATION
This degree is designed for the professional educator who wishes to pursue advanced study. The primary objective is to prepare instructional leaders through courses in curriculum, methods, supervision, learning principles, human interaction, and areas of specialization. The foundation areas (professional studies) receive greater emphasis in the M.Ed. programs than the M.A. programs. Coursework in the specialization may include courses in college other than the College of Education. The Curriculum and Instruction program is offered with specialization areas. General program requirements are listed below. For specific specialization requirements, contact the appropriate department.

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

Major Research Areas:
N/A
ADMISSION INFORMATION
Program may have additional requirements; check before applying.

DEGREE PROGRAM REQUIREMENTS:
College of Education Program Requirements for the Master of Education degree (M.Ed.)

The M.Ed. degree in Curriculum and Instruction requires a minimum of 33 semester hours with 60 percent or more of the courses at the 6000 level. Courses at the 7000 level are advanced graduate level courses and thus are not approved to be part of the master's degree program.

<table>
<thead>
<tr>
<th>Program of Study Degree Requirements (minimums)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Process Core - 12 hours minimum</td>
</tr>
<tr>
<td>EDF 6432  EDF 6481  EDF 6211 or EDF 6215 or equivalent</td>
</tr>
<tr>
<td>EDF 6517 or EDF 6544 or EDF 6606 or equivalent</td>
</tr>
</tbody>
</table>

Curriculum and Instruction (EDG 6627) - 3 hours minimum; a prerequisite may be required at the undergraduate level
Content Specialization - 18 hours minimum
Comprehensive Examination

Individual areas of specialization may have variations in the additional requirements. For information contact the department/program offering the specialization of interest.

COURSES:
See [http://www.ugs.usf.edu/sab/sabs.cfm](http://www.ugs.usf.edu/sab/sabs.cfm)

OTHER INFORMATION:
N/a
DEGREE INFORMATION

Type of Degree Offered:
Education Specialist - Ed. S.

Concentrations Offered:
Concentrations offered under the Curriculum and Instruction Degree Program with degree level indicated in parentheses:
Adult Education (M.Ed., Ed.S., Ph.D.)
Business & Office Education (M.Ed.)
College Student Affairs (M.Ed.)
Counselor Education (Ed.S., Ph.D.)
Distributive Education (M.Ed.)
Early Childhood Education (M.Ed., Ed.S., Ph.D.)
Elementary Education (M.Ed., Ed.S., Ph.D.)
English Education (M.Ed., Ph.D.)
Foreign Language Education (M.Ed.)
Higher Education, Administration (Ed.S., Ph.D.)
Higher Education, Community College Teaching (Ed.S., Ph.D.)
Industrial Arts - Technology Education (M.Ed.)
Instructional Technology (M.Ed., Ed.S., Ph.D.)
Interdisciplinary Education (M.Ed., Ed.S., Ph.D.)
Interdisciplinary Ed, Sec Lang Acquisition (Ph.D.)
Mathematics Education (M.Ed., Ed.S., Ph.D.)
Measurement and Evaluation (M.Ed., Ed.S., Ph.D.)
Middle School Education - General (M.Ed.)
Middle School Education - Math (M.Ed.)
Middle School Education - Science (M.Ed.)
Middle School Education - English (M.Ed.)
Middle School Education - Social Studies (M.Ed.)
Music Education (Ed.S., Ph.D.)
Reading Education (M.Ed.)
Reading / Language Arts Education (Ed.S., Ph.D.)
School Psychology (Ed.S., Ph.D.)
Science Education (Ed.S., Ph.D.)
Science Education - Biology (M.Ed.)
Science Education - Chemistry (M.Ed.)
Science Education - Physics (M.Ed.)
Secondary Education (Ph.D.)

PROGRAM INFORMATION

The Ed.S. degree consists of a minimum of 36 hours beyond the master's degree and is flexible in its requirements. The degree is designed to provide professional educators with an opportunity to develop competencies in areas of special needs and interests. Consequently, the degree program has few required courses, and each student's program is individually planned in consultation with a faculty program committee. Courses at the 5000 level are inappropriate, and a minimum of 15 hours should be taken at the 7000 level.

CONTACT INFORMATION

Program Director: Contact appropriate department
Other Contact: n/a
Phone: Contact Dept that offers concentration
Fax: n/a
Email: n/a
Web Address: http://www.coedu.usf.edu/college/

Mailing Address:
University of South Florida
Curriculum and Instruction
Curriculum and Instruction Program
4202 E. Fowler Avenue, EDU162
Tampa, FL 33620

Concentrations Continued:
Social Science Education (M.Ed.)
Special Education - Gifted (M.Ed.)
Special Education - Mental Retardation (M.Ed.)
Special Education - Specific Learning Disabilities (M.Ed.)
Special Education - Motor Disabilities (M.Ed.)
Student Affairs Administration (Ph.D.)
Theater Education (M.Ed.)
Vocational Education (Ed.S., Ph.D.) - not accepting students

Also offered as: N/A

Program Status: Active

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

Major Research Areas:
N/A

ADMISSION INFORMATION
Program may have additional requirements; check before applying.
DEGREE PROGRAM REQUIREMENTS:  
Specialization Coursework - 27 hours minimum  
Thesis/Project - 9 hours minimum  
Comprehensive Exam (Oral and/or written)  
Oral defense of the thesis/project  

Thesis/Project - The student is required to plan and successfully complete an individual thesis or project. The purpose is to provide an opportunity for the student to apply knowledge gained in the program to the resolution of significant needs arising from professional practice. A minimum of 9 semester hours of thesis enrollment is required in the Ed.S. degree program. Students are required to enroll for a minimum of 2 semester hours in the 6971 thesis course each semester while working on the Ed.S. project and for 2 semester hours in the semester in which the student plans to graduate. Students who have not completed the project after enrolling in the required 9 hours must continue to enroll in a minimum of 2 credit hours of 6971 Thesis each semester, including the semester in which the project is submitted to the College Associate Dean for Academic Affairs or the Office of Graduate Studies (School Psychology students). Students must have an oral defense of the project/thesis with their project/thesis supervisory committee. Individual areas of specialization may have additional requirements. For information contact the department/program offering the specialization of interest.

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

OTHER INFORMATION:  
N/a
Curriculum and Instruction Program
Ed.D.

DEGREE INFORMATION

Type of Degree Offered:
Doctor of Education - Ed.D.

Concentrations Offered:
Concentrations offered under the Curriculum and Instruction Degree Program with degree level indicated in parentheses:
- Adult Education (M.Ed., Ed.S., Ph.D.)
- Business & Office Education (M.Ed.)
- College Student Affairs (M.Ed.)
- Counselor Education (Ed.S., Ph.D.)
- Distributive Education (M.Ed.)
- Early Childhood Education (M.Ed., Ed.S., Ph.D.)
- Elementary Education (M.Ed., Ed.S., Ph.D.)
- English Education (M.Ed., Ph.D.)
- Foreign Language Education (M.Ed.)
- Higher Education, Administration (Ed.S., Ph.D.)
- Higher Education, Community College Teaching (Ed.S., Ph.D.)
- Industrial Arts - Technology Education (M.Ed.)
- Instructional Technology (M.Ed., Ed.S., Ph.D.)
- Interdisciplinary Education (M.Ed., Ed.S., Ph.D.)
- Interdisciplinary Ed, Sec Lang Acquisition (Ph.D.)
- Mathematics Education (M.Ed., Ed.S., Ph.D.)
- Measurement and Evaluation (M.Ed., Ed.S., Ph.D.)
- Middle School Education - General (M.Ed.)
- Middle School Education - Math (M.Ed.)
- Middle School Education - Science (M.Ed.)
- Middle School Education - English (M.Ed.)
- Middle School Education - Social Studies (M.Ed.)
- Music Education (Ed.S., Ph.D.)
- Reading Education (M.Ed.)
- Reading / Language Arts Education (Ed.S., Ph.D.)
- School Psychology (Ed.S., Ph.D.)
- Science Education (Ed.S., Ph.D.)
- Science Education - Biology (M.Ed.)
- Science Education - Chemistry (M.Ed.)
- Science Education - Physics (M.Ed.)
- Secondary Education (Ph.D.)

CONTRIBUTION INFORMATION

Program Director: Contact appropriate department
Other Contact: n/a
Phone: Contact Dept that offers concentration
Fax: n/a
Email: n/a
Web Address: http://www.coedu.usf.edu/college/

Mailing Address:
University of South Florida
Curriculum and Instruction
Curriculum and Instruction Program
4202 E. Fowler Avenue, EDU162
Tampa, FL 33620

Concentrations Continued:
Social Science Education (M.Ed.)
Special Education (Ed.S., Ph.D.)
Special Education - Behavior Disorders (M.Ed.)
Special Education - Gifted (M.Ed.)
Special Education - Mental Retardation (M.Ed.)
Special Education - Specific Learning Disabilities (M.Ed.)
Special Education - Motor Disabilities (M.Ed.)
Student Affairs Administration (Ph.D.)
Theater Education (M.Ed.)
Vocational Education (Ed.S., Ph.D.) - not accepting students

Also offered as: N/A

Program Status: Active

PROGRAM INFORMATION
Contact the College for information.

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

Major Research Areas:
N/A

ADMISSION INFORMATION
Program may have additional requirements; check before applying.

DEGREE PROGRAM REQUIREMENTS:
Contact the College for information.

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

OTHER INFORMATION:
N/a
Curriculum and Instruction Program
Ph.D.

Type of Degree Offered:
Doctor of Philosophy – Ph.D.

Concentrations Offered:
Concentrations offered under the Curriculum and Instruction Degree Program with degree level indicated in parentheses:
- Adult Education (M.Ed., Ed.S., Ph.D.)
- Business & Office Education (M.Ed.)
- College Student Affairs (M.Ed.)
- Counselor Education (Ed.S., Ph.D.)
- Distributive Education (M.Ed.)
- Early Childhood Education (M.Ed., Ed.S., Ph.D.)
- Elementary Education (M.Ed., Ed.S., Ph.D.)
- English Education (M.Ed., Ph.D.)
- Foreign Language Education (M.Ed.)
- Higher Education, Administration (Ed.S., Ph.D.)
- Higher Education, Community College Teaching (Ed.S., Ph.D.)
- Industrial Arts - Technology Education (M.Ed.)
- Instructional Technology (M.Ed., Ed.S., Ph.D.)
- Interdisciplinary Education (M.Ed., Ed.S., Ph.D.)
- Interdisciplinary Ed, Sec Lang Acquisition (Ph.D.)
- Mathematics Education (M.Ed., Ed.S., Ph.D.)
- Measurement and Evaluation (M.Ed., Ed.S., Ph.D.)
- Middle School Education – General (M.Ed.)
- Middle School Education – Math (M.Ed.)
- Middle School Education – Science (M.Ed.)
- Middle School Education – English (M.Ed.)
- Middle School Education – Social Studies (M.Ed.)
- Music Education (Ed.S., Ph.D.)
- Reading Education (M.Ed.)
- Reading / Language Arts Education (Ed.S., Ph.D.)
- Science Education (Ed.S., Ph.D.)
- Science Education - Biology (M.Ed.)
- Science Education - Chemistry (M.Ed.)
- Science Education - Physics (M.Ed.)
- Secondary Education (Ph.D.)

PROGRAM INFORMATION
The Doctor of Philosophy degree is available in Curriculum and Instruction with specializations in the following areas: Adult Education, College Student Affairs, Counselor Education, Early Childhood Education, Elementary Education, English Education, Higher Education (includes a specialization in Community College Teaching), Instructional Technology, Interdisciplinary Education, Mathematics Education, Measurement and Evaluation, Music Education (contact the College of Visual and Performing Arts), Reading/Language Arts Education, Science Education, Secondary Education, Secondary Education (Social Science Specialization), Special Education, and Vocational Education (currently closed).

CONTACT INFORMATION
Program Director: Contact appropriate department
Other Contact: n/a
Phone: Contact Dept that offers concentration
Fax: n/a
Email: n/a
Web Address: http://www.coedu.usf.edu/college/

Mailing Address:
University of South Florida
Curriculum and Instruction
Curriculum and Instruction Program
4202 E. Fowler Avenue, EDU162
Tampa, FL 33620

Concentrations Continued:
- Social Science Education (M.Ed.)
- Special Education (Ed.S., Ph.D.)
- Special Education - Behavior Disorders (M.Ed.)
- Special Education - Gifted (M.Ed.)
- Special Education - Mental Retardation (M.Ed.)
- Special Education - Specific Learning Disabilities (M.Ed.)
- Special Education - Motor Disabilities (M.Ed.)
- Student Affairs Administration (Ph.D.)
- Theater Education (M.Ed.)
- Vocational Education (Ed.S., Ph.D.) - not accepting students

Also offered as: N/A

Program Status: Active

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

Major Research Areas:
N/A

ADMISSION INFORMATION
Program may have additional requirements; check before applying.
DEGREE PROGRAM REQUIREMENTS:
Concentration/Specialization Area - 18 hours minimum
Curriculum and Instruction - 3 hours
Cognate Area - 12 hours minimum
Statistics/Measurement/Research Design - 11-16 hours
Psychological and Social Foundations - 7-8 hours
Dissertation - 24 hours

Dissertation- Beginning with the semester immediately following admission to candidacy, the student must be enrolled for a minimum of 12 dissertation credit hours in each 12-month period for the first two years after being admitted to candidacy. Students may complete the 12 hours in either two or three semesters but must be enrolled for dissertation hours in the Fall and Spring semesters of each year during the two year (24-month) period. Students may elect not to register for dissertation hours during the summer semester if in this two-year period they are not using university facilities or other USF resources, including faculty and staff time. If such resources are being used, then enrollment in a minimum of two dissertation hours during the Summer semester is required. If the dissertation is not completed by the time the 24 hours of dissertation credit have been accrued, students must enroll continuously, including Summer semester, for a minimum of two dissertation hours per semester until graduation. (This includes the semester during which the dissertation is defended and the semester in which final submission of the dissertation is made to the Office of Graduate Studies).

Exceptions to the continuous enrollment policy may be approved if the major professor writes a letter of petition to the Associate Dean for Academic Affairs, indicating specifically the nature and duration of the exception and the justification. Unless an exception has been approved, failure to enroll as specified will result in dismissal of the student from the program. To be readmitted, the student must secure permission from the major professor and write a letter of petition, co-signed by the major professor, to the Associate Dean for Academic Affairs, outlining in detail a timeline for completing the dissertation. The Associate Dean for Academic Affairs will approve or deny the petition. This process will be independent of, and will not replace, any procedures required by the University or the Office of Graduate Studies.

Residency- Students must enroll for at least nine hours in each of two semesters in a 12-month period. The Ph.D. program requires that during the residency period, students may be employed no more than half-time. Individual programs may have additional residency requirements.

Doctoral Qualifying Examination - Students must demonstrate satisfactory performance on the Doctoral Qualifying Examination before admission to candidacy. (See current College of Education Graduate Handbook, www.coedu.usf.edu, click on information; also consult Faculty Program Advisor).

Individual areas of specialization may have variations in the requirements. For information contact the department/program offering the specialization of interest.

Please be advised that program and/or course requirements are subject to change, per state legislative mandates, Florida State Department of Education program approval standards, and accreditation criteria.

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

OTHER INFORMATION:
N/a
Distributive and Marketing Education Program
M.A.

DEGREE INFORMATION

Type of Degree Offered:
Master of Arts - M.A.

Concentrations Offered:
n/a

Also offered as:
n/a

Program Status:  Not accepting students.  
See Career and Technical Education.

CONTACT INFORMATION

Program Director:  Janet Scaglione
Other Contact:  n/a
Phone:  813-974-3420
Fax:  n/a
Email:  n/a
Web Address:  not accepting students

Mailing Address:
University of South Florida
Leadership Development
Distributive and Marketing Education Program
4202 E. Fowler Avenue, EDU162
Tampa, FL  33620

PROGRAM INFORMATION

Not currently accepting students.  See Career and Technical Education - Contact Program for information.

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

Major Research Areas:
n/a

ADMISSION INFORMATION

Program may have additional requirements; check before applying.

DEGREE PROGRAM REQUIREMENTS:

Plan I - plus Current Trends (EVT 6661), Major Emphasis (12 hours in Distributive and Marketing Education or related areas of Adult and Vocational Education selected in consultation with an advisor and depending upon the individual's background and experience), and Electives (6-8 hours in a related area, such as Business Administration, Administration, Supervision, Counselor Education, Special Education)

Plan III - plus Current Trends (EVT 6661) and undergraduate prerequisites as necessary.

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

OTHER INFORMATION:
N/a
Dramatic Writing Program
M.F.A.

DEGREE INFORMATION

Type of Degree Offered:
Master of Fine Arts - M.F.A.

Concentrations Offered:
n/a

Also offered as:
n/a

Program Status:  Not accepting students.

CONTACT INFORMATION

Program Director:  Barton Lee
Other Contact:  n/a
Phone:  813-974-2701
Fax:  813-974-4122
Email:  blee@arts.usf.edu
Web Address:  n/a

Mailing Address:
University of South Florida
School of Theater and Dance
Dramatic Writing Program
4202 E. Fowler Avenue, FAH110
Tampa, FL  33620

PROGRAM INFORMATION

Not currently accepting students.

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

Major Research Areas:
n/a

ADMISSION INFORMATION

Not currently accepting students.

DEGREE PROGRAM REQUIREMENTS:

n/a

COURSES:

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

OTHER INFORMATION:

N/a
### Dual Degree Program

**M.A.**

#### DEGREE INFORMATION

- **Type of Degree Offered:** Master of Arts - M.A.
- **Religious Studies/Education**
- **Concentrations Offered:** n/a
- **Also offered as:** n/a
- **Program Status:** Active

#### CONTACT INFORMATION

- **Program Director:** James F. Strange
- **Phone:** 813-974-1845
- **Fax:** 813-974-1853
- **Email:** strange@chuma1.cas.usf.edu
- **Web Address:** [http://zulu.cas.usf.edu/Rel/](http://zulu.cas.usf.edu/Rel/)
- **Mailing Address:**
  - University of South Florida
  - Religious Studies/Education
  - Dual Degree Program
  - 4202 E. Fowler Avenue, CPR107
  - Tampa, FL 33620

#### PROGRAM INFORMATION

- Contact program for information.
- **Accreditation:** Accredited by the Commission on Colleges of the Southern Association of College and Schools.
- **Major Research Areas:** n/a

#### ADMISSION INFORMATION

Program may have additional requirements; check before applying.

#### DEGREE PROGRAM REQUIREMENTS:

Contact program for information.

#### COURSES:

- See [http://www.ugs.usf.edu/sab/sabs.cfm](http://www.ugs.usf.edu/sab/sabs.cfm)

#### OTHER INFORMATION:

- N/a
Dual Degree Program
M.A./M.P.H.

DEGREE INFORMATION

Type of Degree Offered:
Master of Arts / Master of Public Health - M.A./M.P.H.
Anthropology / Public Health

Concentrations Offered:
n/a

Also offered as:
n/a

Program Status: Active

CONTACT INFORMATION

Program Director: Brent Weisman
Other Contact: 
Phone: 813-974-2138
Fax: 813-974-2668
Email: nfenelon@cas.usf.edu
Web Address: n/a

Mailing Address:
University of South Florida
Anthropology
Dual Degree Program
4202 E. Fowler Avenue, SOC107
Tampa, FL 33620

PROGRAM INFORMATION

The two programs review applicants independently. A single graduate school application form is completed, listing both anthropology and public health as major areas of study. The review process may begin in either college. The timing of application should take into consideration that the COPH admits students three times a year (Fall, Spring, and Summer) and the Department of Anthropology admits students annually in the Fall. Once the applicant has been accepted into one program, the application folder is forwarded to the other program for review.

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

Upon completion of all requirements for the dual degree program, the student submits separate applications for graduation to anthropology and public health, and is certified for graduation by both programs and receives two diplomas.

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

Major Research Areas:
n/a

ADMISSION INFORMATION

Program may have additional requirements; check before applying.

DEGREE PROGRAM REQUIREMENTS:

MA in Applied Anthropology (37 hours)

1. ANG 5937 (Graduate Proseminar I)(3cr)
2. ANG 6931 Graduate Proseminar II (3cr)
3. ANG 6701 Contemporary Applied Anthropology (3cr)
4. ANG 6766 Research Methods in Applied Anthropology (3cr)
5. Graduate level statistics course fulfilled by PHC 6050 Biostatistics I
6. 3 graduate level seminars (variable topics) in Anthropology, at least two in the area of medical anthropology (usually 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
7. One graduate level course outside the Department of Anthropology fulfilled by public health courses
8. Comprehensive examination requirement met by successfully completing ANG 6931 (Graduate Proseminar II)
9. Internship: ANG 6915; one semester, full-time after completion of course requirements, in the field of public health to dually fulfill MPH requirement for Supervised Field Experience PHC 6945, 4 credit hours minimum
10. Thesis: ANG 6971; dually fulfills MPH requirement for Special Project, PHC 6977, 6 credit hours minimum

MPH in Public Health (38-51 hours)

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

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

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

For program descriptions and requirements, please see [College of Public Health](http://www.ugs.usf.edu/sab/sabs.cfm)

**COURSES:**
See [http://www.ugs.usf.edu/sab/sabs.cfm](http://www.ugs.usf.edu/sab/sabs.cfm)

**OTHER INFORMATION:**
N/a
Dual Degree Program
Ph.D./M.P.H.

DEGREE INFORMATION

Type of Degree Offered:
Doctor of Philosophy / Master of Public Health
-Ph.D./M.P.H.- Anthropology / Public Health

Concentrations Offered:
n/a

Also offered as:

Program Status:

CONTACT INFORMATION

Program Director: Brent Weisman
Other Contact: n/a
Phone: 813-974-2135
Fax: 813-974-2668
Email: nfenelon@cas.usf.edu
Web Address: http://www.cas.usf.edu/anthropology/index.html

Mailing Address:
University of South Florida
Anthropology
Dual Degree Program
4202 E. Fowler Avenue, SOC107
Tampa, FL 33620

PROGRAM INFORMATION

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

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

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

Major Research Areas:
n/a

ADMISSION INFORMATION

Program may have additional requirements; check before applying.

DEGREE PROGRAM REQUIREMENTS:
Contact Colleges for information.

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

OTHER INFORMATION:
N/a
Dual Degree (Joint degree) Program
M.S.

DEGREE INFORMATION

Type of Degree Offered:
Master of Science - M.S.
Physics/Engineering Science

Concentrations Offered:
n/a

Also offered as:
Interdisciplinary arrangement - Ph.D. in Engineering Science

Program Status: Active

CONTACT INFORMATION

Program Director: Pritish Mukherjee
Other Contact: n/a
Phone: 813-974-2871
Fax: 813-974-5813
Email: pritish@chuma.cas.usf.edu
Web Address: http://www.cas.usf.edu/physics/

Mailing Address:
University of South Florida
Interdisciplinary (Physics and Engineering) Dual Degree (Joint degree) Program
4202 E. Fowler Avenue, PHY114 and ENB118
Tampa, FL 33620

PROGRAM INFORMATION

Contact the program for information.

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

Major Research Areas:
N/A

ADMISSION INFORMATION

Program may have additional requirements; check before applying.

DEGREE PROGRAM REQUIREMENTS:

Contact the program for information.

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

OTHER INFORMATION:
N/a
Dual Degree (Joint degree) Program
Ph.D.

DEGREE INFORMATION
Type of Degree Offered:
Doctor of Philosophy - Ph.D.  
Physics/Engineering Science

Concentrations Offered:
n/a

Also offered as:
Joint M.S. Degree – Physics/Engineering Science
Interdisciplinary arrangement - Ph.D. in Engineering Science

Program Status: Active

CONTACT INFORMATION
Program Director: Pritish Mukherjee
Other Contact: n/a
Phone: 813-974-2871
Fax: 813-974-5813
Email: pritish@chuma.cas.usf.edu
Web Address: http://www.cas.usf.edu/physics/

Mailing Address:
University of South Florida  
Interdisciplinary (Physics and Engineering)  
Dual Degree (Joint degree) Program  
4202 E. Fowler Avenue, PHY114 and ENB118  
Tampa, FL 33620

PROGRAM INFORMATION
Under an interdisciplinary arrangement with the College of Arts and Sciences and the College of Engineering, the physics graduate students may obtain a Ph.D. in Engineering under the dissertation direction of a Physics Director of Graduate Studies.

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

Major Research Areas:
N/A

ADMISSION INFORMATION
Program may have additional requirements; check before applying.

DEGREE PROGRAM REQUIREMENTS:
Contact the program for information.

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

OTHER INFORMATION:
N/a
Early Childhood Education Program
M.A.

DEGREE INFORMATION
Type of Degree Offered:
Master of Arts - M.A.

Concentrations Offered:
n/a

Also offered as:
n/a

Program Status:
Active

CONTACT INFORMATION
Program Director:
Barry Morris
Other Contact:
n/a
Phone:
813-974-3460
Fax:
813-974-0938
Email:
miranda@tempest.coedu.usf.edu
Web Address:
http://www.coedu.usf.edu/clar/

Mailing Address:
University of South Florida
Child/Language Arts/Reading (CLAR)
Early Childhood Education Program
4202 E. Fowler Avenue, EDU162
Tampa, FL 33620

PROGRAM INFORMATION
Consult Early Childhood Education for more information.

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

Major Research Areas:
n/a

ADMISSION INFORMATION
Program may have additional requirements; check before applying.

DEGREE PROGRAM REQUIREMENTS:
Contact Early Childhood Education for more information.

Please be advised that program and/or course requirements are subject to change, per state legislative mandates, Florida Department of Education program approval standards, and accreditation criteria.

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

OTHER INFORMATION:
N/a
Educational Leadership Program
M.Ed.

DEGREE INFORMATION

Type of Degree Offered:
Master of Education - M.Ed.

Concentrations Offered:
n/a

Also offered as:
specialization under Curriculum and Instruction (M.Ed., Ph.D. - Interdisciplinary Education)

Also offered in St. Petersburg

Program Status: Active

CONTACT INFORMATION

Program Director: Judith Ponticell
Other Contact: n/a
Phone: 813-874-3420
Fax: 813-974-5423
Email: n/a
Web Address: http://www.coedu.usf.edu/college/department_info.cfm?id=42

Mailing Address:
University of South Florida
Educational Leadership and Policy Studies
Educational Leadership Program
4202 E. Fowler Avenue, EDU162
Tampa, FL 33620

PROGRAM INFORMATION

The M.Ed. is designed to improve performance in K-12 school leadership. The degree provides course work that meets Florida Educational Leadership Core Curriculum requirements in public school curriculum and instruction, organizational management and development, human resource management and development, leadership skills, communication skills, technology, educational law, and educational finance. Successful completion of the program fulfills degree and core curriculum requirements for Florida certification in Educational Leadership-Administrative Class. For complete requirements contact the M.Ed. advisor.

Accreditation:
Accredited by the Commission on Colleges of the Southern Association of College and Schools. National Council for the Accreditation of Teacher Education (NCATE): Florida Department of Education.

Major Research Areas: n/a

ADMISSION INFORMATION

Program may have additional requirements; check before applying.

DEGREE PROGRAM REQUIREMENTS:

Program of Study, Comprehensive Exam/Portfolio Program of Study 36 hours minimum Required Courses 36 hours

Area A: Core (9 hours) EDF 6492, EDG 6627, EME 6425
Area B: Leadership Concentration/Specialization (24 hours) EDA 6061, EDA 6192, EDA 6232, EDA 6242, EDS 6050, EDG 6285, EDA 6106, EDA 6503
Area C: Field Experience (3 Hours) EDA 6945

Refer to College listing and M.Ed. Advisor for additional information.

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

OTHER INFORMATION:
N/a
Educational Leadership Program
Ed.S.

DEGREE INFORMATION

Type of Degree Offered:
Education Specialist - Ed.S.

Concentrations Offered:
n/a

Also offered as:
specialization under Curriculum and Instruction (M.Ed., Ph.D. - Interdisciplinary Education)

Also offered in St. Petersburg

Program Status: Active

CONTACT INFORMATION

Program Director: Judith Ponticell
Other Contact: n/a
Phone: 813-874-3420
Fax: 813-974-5423
Email: 
Web Address: http://www.coedu.usf.edu/college/department_info.cfm?id=42

Mailing Address:
University of South Florida
Educational Leadership and Policy Studies
Educational Leadership Program
4202 E. Fowler Avenue, EDU162, EDU162
Tampa, FL 33620

PROGRAM INFORMATION

The Ed.S. degree is an advanced graduate degree beyond the master’s degree but below the Ed.D. The Ed.S. is designed to provide professional educators with an opportunity to develop competencies in areas of special needs and interests. The degree consists of a minimum of 36 hours, including 9 hours for the specialist thesis/project. Beyond the required specialization courses, the degree is flexible, and each student’s program is individually planned in consultation with a 3-member faculty program committee.

Accreditation:
Accredited by the Commission on Colleges of the Southern Association of College and Schools. National Council for the Accreditation of Teacher Education (NCATE): Florida Department of Education.

Major Research Areas:
n/a

ADMISSION INFORMATION

Program may have additional requirements; check before applying.

DEGREE PROGRAM REQUIREMENTS:

Program of Study, Comprehensive examination, specialist thesis/project (including oral defense)

Program of Study 36 hours minimum
Specialization 27 hours
Required Specialization Courses: EDA 7222, EDA 7233, EDA 7247, EDS 7130, and EDG 7667 or EDG 7692

Specialization Electives: 9 hours taken at the 6000 or 7000 level

Core Elective: 3 hours taken from the Department of educational Measurement/Research

Thesis/Project: EDA 6971 (9 hours), includes written comprehensive examination and oral defense of thesis/project.

Comprehensive Examination

Refer to College listing and Ed.S. Advisor for additional information.

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

OTHER INFORMATION:
N/a
Educational Leadership Program
Ed.D.

DEGREE INFORMATION
Type of Degree Offered:
Doctor of Education - Ed.D.

Concentrations Offered:
n/a

Also offered as:
specialization under Curriculum and Instruction (M.Ed., Ph.D. - Interdisciplinary Education)

Also offered in St. Petersburg

Program Status:  Active

CONTACT INFORMATION
Program Director: Judith Ponticell
Other Contact: n/a
Phone: 813-874-3420
Fax: 813-974-5423
Email:  
Web Address: http://www.coedu.usf.edu/college/department_info.cfm?id=42

Mailing Address:
University of South Florida
Educational Leadership and Policy Studies
Educational Leadership Program
4202 E. Fowler Avenue, EDU162
Tampa, FL 33620

PROGRAM INFORMATION
The Ed.D. degree is designed to improve professional practice by enhancing the ability of professional educators to obtain, analyze, and synthesize information at an advanced level for effective education decision making.

Accreditation:
Accredited by the Commission on Colleges of the Southern Association of College and Schools, National Council for the Accreditation of Teacher Education (NCATE): Florida Department of Education.

Major Research Areas:
n/a

ADMISSION INFORMATION
Program may have additional requirements; check before applying.

DEGREE PROGRAM REQUIREMENTS:

Program of Study 76 hours minimum
Required courses: EDG 7667, EDG 7692, and EDGY 7980 Dissertation (24 hours)

Specialization Courses 24 hours
EDA 7222, EDA 7233, EDA 7247, EDS 7130; 9 hours electives at 7000-level or 6000-level with advanced graduate standing; 3 hours technology course at 6000-level or above Measurement/Statistics/Research Design – 11-16 hours: EDF 6407, EDF 7408, and one of the following – EDF 7410, EDF 7437, EDF 7484, EDF 7493, or EDF 7477 and EDF 7478

Psychological and Social Foundations 11-12 hours:
Three courses at the 7000-level or 6000-level with advanced graduate standing, with at least one course required in each of the following areas – Philosophical/Social / Historical Foundations; Educational Psychology. Refer to College Listing or Ed.D. Advisor for additional information.

Please be advised that program and/or course requirements are subject to change, per state legislative mandates, Florida State Department of Education program approval standards, and accreditation criteria

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

OTHER INFORMATION:
N/a
# Educational Program Development Program
## Ed.D.

### Degree Information

**Type of Degree Offered:**
Doctor of Education - Ed.D.

**Concentrations Offered:**
- Administration of Special Education (closed to new admissions)*
- Adult Education
- Elementary Education
- Vocational Education (closed to new admissions)

**Also offered as:**
n/a

**Program Status:**
Active

### Contact Information

**Program Director:**
William Young (Adult Ed) or
Susan Homan (Elementary Ed)

**Other Contact:**
n/a

**Phone:**
- 974-3455 (Adult Ed) or
- 974-1059 (Elementary Ed)

**Fax:**
- 813-974-3366 (Adult Ed) or
- 813-974-0938 (Elementary Ed)

**Email:**
- adulted@tempest.coedu.usf.edu
- homan@tempest.coed

**Web Address:**
n/a

**Mailing Address:**
University of South Florida
See below
Educational Program Development Program
4202 E. Fowler Avenue, EDU162
Tampa, FL 33620

### Program Information

**Departments:**
- Adult, Career and Higher Education
- Childhood Education

**Ed.D. Program Description:**
Each specialization area offers a different focus. The Adult Education emphasis prepares leaders for a variety of school and non-school settings such as universities, community colleges, proprietary schools, community agencies, corporate training centers and others. Although a residency requirement must be met, the Ed.D. may be pursued while maintaining a full-time job. This degree is designed to develop the competencies of educational practitioners and to obtain and synthesize knowledge for the solution of educational problems and practices.

**Accreditation:**
Accredited by the Commission on Colleges of the Southern Association of College and Schools. National Council for the Accreditation of Teacher Education (NCATE): Florida Department of Education.

**Major Research Areas:**
n/a

### Admission Information

Program may have additional requirements; check before applying.

### Degree Program Requirements:
The program requires a minimum of 76–82 hours beyond the master’s degree, depending on the specialization area.

- Program of Study 76—82 hours
  - Concentration/Specialization Coursework 24 hours
  - Curriculum and Instruction 6 hours
  - Statistics/Measurement/Research Design 11–16 hours
  - Psychological and Social Foundations 11-12 hours
  - Dissertation 24 hours

See College for more information.

Please be advised that program and/or course requirements are subject to change, per state legislative mandates, Florida State Department of Education program approval standards, and accreditation criteria.

### Courses:
See [http://www.ugs.usf.edu/sab/sabs.cfm](http://www.ugs.usf.edu/sab/sabs.cfm)

### Other Information:
N/a
Electrical Engineering Program
M.E.

DEGREE INFORMATION

Type of Degree Offered:
Master of Engineering - M.E.

Concentrations Offered:
Circuits, Controls and Systems
Communications and Signal Processing
Digital Architecture and Design
Electric Power Systems
Microelectronics
Wireless Circuits and Systems

Also offered as:
A Dual M.S. Degree in Physics/Engineering; and a joint
degree with the Industrial Engineering (this permits
simultaneous specialization in an Electrical Engineering
discipline with an MSEM minor.)

Program Status: Active

CONTACT INFORMATION

Program Director: Kenneth Buckle
Other Contact: n/a
Phone: 813-974-2369
Fax: n/a
Email: eegrad@eng.usf.edu
Web Address: http://ee.eng.usf.edu/elecgrad.html

Mailing Address:
University of South Florida
Electrical Engineering
Electrical Engineering Program
4202 E. Fowler Avenue, ENB118
Tampa, FL 33620

PROGRAM INFORMATION

The Department of Electrical Engineering of the
University of South Florida offers degrees at the Doctoral
and Master's level. The major areas of instruction in the
department are as listed above. Occasionally projects in
other areas such as modal analysis, computations,
optimization, thermal management, or medical imaging are
conducted.

The Department’s research efforts are supported by well-
equipped laboratories in the areas of silicon processing,
compound semiconductors, electro-optics, IC design, noise
and reliability, thin dielectric films, restructurable VLSI,
communications and signal processing, and micro/millimeter waves. Extensive computing facilities are
also housed in Engineering Building II.

Current and previous Ph.D. dissertations explore the areas
of microelectronics (materials and devices of elemental
and compound semiconductors, circuit design, modeling,
testing, and reliability); communications and signal
processing (communication networks, packet switching,
digital video and HDTV, ISDN, optical fiber
communication, satellite communications, comm-software,
comm-terminals, microprocessors and VLSI for signal
processing); systems and controls; solid state material and
device processing and characterization; electro-optics;
emagnetics, microwave and millimeter-wave
engineering (antennas, devices, systems); CAD and
microprocessors; and biomedical engineering.
Master’s programs include options in the six major areas
listed above. Other programs may be tailored for students
with special interests. Non-thesis master’s studies,
comprising 33 credit hours of course work without a thesis
are possible.

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

Major Research Areas:
n/a

ADMISSION INFORMATION

Program may have additional requirements; check before
applying.

DEGREE PROGRAM REQUIREMENTS:
Please contact Electrical Engineering for information

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

OTHER INFORMATION:
N/a
Electrical Engineering Program
M.E.E.

DEGREE INFORMATION

Type of Degree Offered:
Master of Electrical Engineering - M.E.E.

Concentrations Offered:
Circuits, Controls and Systems
Communications and Signal Processing
Digital Architecture and Design
Electric Power Systems
Microelectronics
Wireless Circuits and Systems

Also offered as:
A Dual M.S. Degree in Physics/Engineering; and a joint
degree with the Industrial Engineering (this permits
simultaneous specialization in an Electrical Engineering
discipline with an MSEM minor.)

Program Status: Active

CONTACT INFORMATION

Program Director: Kenneth Buckle
Other Contact: n/a
Phone: 813-974-2369
Fax: n/a
Email: eegrad@eng.usf.edu
Web Address: http://ee.eng.usf.edu/elecgrad.html

Mailing Address:
University of South Florida
Electrical Engineering
Electrical Engineering Program
4202 E. Fowler Avenue, ENB118
Tampa, FL 33620

PROGRAM INFORMATION

The Department of Electrical Engineering of the
University of South Florida offers degrees at the Doctoral
and Master’s level. The major areas of instruction in the
department are as listed above. Occasionally projects in
other areas such as modal analysis, computations,
optimization, thermal management, or medical imaging are
conducted.

The Department’s research efforts are supported by well-
equipped laboratories in the areas of silicon processing,
compound semiconductors, electro-optics, IC design, noise
and reliability, thin dielectric films, restructurable VLSI,
communications and signal processing, and
micro/millimeter waves. Extensive computing facilities are
also housed in Engineering Building II.

Current and previous Ph.D. dissertations explore the areas
of microelectronics (materials and devices of elemental
and compound semiconductors, circuit design, modeling,
testing, and reliability); communications and signal
processing (communication networks, packet switching,
digital video and HDTV, ISDN, optical fiber
communication, satellite communications, comm-software,
comm-terminals, microprocessors and VLSI for signal
processing); systems and controls; solid state material and
device processing and characterization; electro-optics;
 electromagnetics, microwave and millimeter-wave

engrading (antennas, devices, systems); CAD and
microprocessors; and biomedical engineering.

Master’s programs include options in the six major areas
listed above. Other programs may be tailored for students
with special interests. Non-thesis master’s studies,
comprising 33 credit hours of course work without a thesis
are possible.

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

Major Research Areas:
n/a

ADMISSION INFORMATION

Program may have additional requirements; check before
applying.

DEGREE PROGRAM REQUIREMENTS:

Please contact Electrical Engineering for information.

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

OTHER INFORMATION:

N/a
Electrical Engineering Program
M.S.E.E.

DEGREE INFORMATION

Type of Degree Offered:
Master of Science in Electrical Engineering - M.S.E.E.

Concentrations Offered:
- Circuits, Controls and Systems
- Communications and Signal Processing
- Digital Architecture and Design
- Electric Power Systems
- Microelectronics
- Wireless Circuits and Systems

Also offered as:
A Dual M.S. Degree in Physics/Engineering; and a joint degree with the Industrial Engineering (this permits simultaneous specialization in an Electrical Engineering discipline with an MSEM minor.)

Program Status: Active

CONTACT INFORMATION

Program Director: Kenneth Buckle
Other Contact: n/a
Phone: 813-974-2369
Fax: n/a
Email: eegrad@eng.usf.edu
Web Address: http://ee.eng.usf.edu/elecgrad.html

Mailing Address:
University of South Florida
Electrical Engineering
Electrical Engineering Program
4202 E. Fowler Avenue, ENB118
Tampa, FL 33620

PROGRAM INFORMATION

The Department of Electrical Engineering of the University of South Florida offers degrees at the Doctoral and Master’s level. The major areas of instruction in the department are as listed above. Occasionally projects in other areas such as modal analysis, computations, optimization, thermal management, or medical imaging are conducted.

The Department’s research efforts are supported by well-equipped laboratories in the areas of silicon processing, compound semiconductors, electro-optics, IC design, noise and reliability, thin dielectric films, restructurable VLSI, communications and signal processing, and micro/millimeter waves. Extensive computing facilities are also housed in Engineering Building II.

Current and previous Ph.D. dissertations explore the areas of microelectronics (materials and devices of elemental and compound semiconductors, circuit design, modeling, testing, and reliability); communications and signal processing (communication networks, packet switching, digital video and HDTV, ISDN, optical fiber communication, satellite communications, comm-software, comm-terminals, microprocessors and VLSI for signal processing); systems and controls; solid state material and device processing and characterization; electro-optics; electromagnetics, microwave and millimeter-wave engineering (antennas, devices, systems); CAD and microprocessors; and biomedical engineering.

Master’s programs include options in the six major areas listed above. Other programs may be tailored for students with special interests. Non-thesis master’s studies, comprising 33 credit hours of course work without a thesis are possible.

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

Major Research Areas:
n/a

ADMISSION INFORMATION

Program may have additional requirements; check before applying.

DEGREE PROGRAM REQUIREMENTS:
Please contact Electrical Engineering for information.

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

OTHER INFORMATION:
N/a
Electrical Engineering Program
M.S.E.S.

DEGREE INFORMATION

Type of Degree Offered:
Master of Science in Engineering Science - M.S.E.S.

Concentrations Offered:
- Circuits, Controls and Systems
- Communications and Signal Processing
- Digital Architecture and Design
- Electric Power Systems
- Microelectronics
- Wireless Circuits and Systems

Also offered as:
A Dual M.S. Degree in Physics/Engineering; and a joint degree with the Industrial Engineering (this permits simultaneous specialization in an Electrical Engineering discipline with an MSEM minor.)

Program Status: active

CONTACT INFORMATION

Program Director: Kenneth Buckle
Other Contact: n/a
Phone: 813-974-2369
Fax: n/a
Email: eegrad@eng.usf.edu
Web Address: http://ee.eng.usf.edu/elecgrad.html

Mailing Address:
University of South Florida
Electrical Engineering
Electrical Engineering Program
4202 E. Fowler Avenue, ENB118
Tampa, FL 33620

PROGRAM INFORMATION

The Department of Electrical Engineering of the University of South Florida offers degrees at the Doctoral and Master's level. The major areas of instruction in the department are as listed above. Occasionally projects in other areas such as modal analysis, computations, optimization, thermal management, or medical imaging are conducted.

The Department’s research efforts are supported by well-equipped laboratories in the areas of silicon processing, compound semiconductors, electro-optics, IC design, noise and reliability, thin dielectric films, restructurable VLSI, communications and signal processing, and micro/millimeter waves. Extensive computing facilities are also housed in Engineering Building II.

Current and previous Ph.D. dissertations explore the areas of microelectronics (materials and devices of elemental and compound semiconductors, circuit design, modeling, testing, and reliability); communications and signal processing (communication networks, packet switching, digital video and HDTV, ISDN, optical fiber communication, satellite communications, comm-software, comm-terminals, microprocessors and VLSI for signal processing); systems and controls; solid state material and device processing and characterization; electro-optics; electromagnetics, microwave and millimeter-wave engineering (antennas, devices, systems); CAD and microprocessors; and biomedical engineering.

Master’s programs include options in the six major areas listed above. Other programs may be tailored for students with special interests. Non-thesis master’s studies, comprising 33 credit hours of course work without a thesis are possible.

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

Major Research Areas:
n/a

ADMISSION INFORMATION

Program may have additional requirements; check before applying.

DEGREE PROGRAM REQUIREMENTS:
Please contact Electrical Engineering for information.

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

OTHER INFORMATION:
N/a
Electrical Engineering Program
Ph.D.

DEGREE INFORMATION

Type of Degree Offered:
Doctor of Philosophy - Ph.D.

Concentrations Offered:
- Circuits, Controls and Systems
- Communications and Signal Processing
- Digital Architecture and Design
- Electric Power Systems
- Microelectronics
- Wireless Circuits and Systems

Also offered as:
A Dual M.S. Degree in Physics/Engineering; and a joint degree with the Industrial Engineering (this permits simultaneous specialization in an Electrical Engineering discipline with an MSEM minor.)

Program Status: active

CONTACT INFORMATION

Program Director: Kenneth Buckle
Other Contact: n/a
Phone: 813-974-2369
Fax: n/a
Email: eegrad@eng.usf.edu
Web Address: http://ee.eng.usf.edu/elecgrad.html

Mailing Address:
University of South Florida
Electrical Engineering
Electrical Engineering Program
4202 E. Fowler Avenue, ENB118
Tampa, FL 33620

PROGRAM INFORMATION

The Department of Electrical Engineering of the University of South Florida offers degrees at the Doctoral and Master’s level. The major areas of instruction in the department are as listed above. Occasionally projects in other areas such as modal analysis, computations, optimization, thermal management, or medical imaging are conducted.

The Department’s research efforts are supported by well-equipped laboratories in the areas of silicon processing, compound semiconductors, electro-optics, IC design, noise and reliability, thin dielectric films, restructurable VLSI, communications and signal processing, and micro/millimeter waves. Extensive computing facilities are also housed in Engineering Building II.

Current and previous Ph.D. dissertations explore the areas of microelectronics (materials and devices of elemental and compound semiconductors, circuit design, modeling, testing, and reliability); communications and signal processing (communication networks, packet switching, digital video and HDTV, ISDN, optical fiber communication, satellite communications, comm-software, comm-terminals, microprocessors and VLSI for signal processing); systems and controls; solid state material and device processing and characterization; electro-optics; electromagnetics, microwave and millimeter-wave engineering (antennas, devices, systems); CAD and microprocessors; and biomedical engineering.

Master’s programs include options in the six major areas listed above. Other programs may be tailored for students with special interests. Non-thesis master’s studies, comprising 33 credit hours of course work without a thesis are possible.

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

Major Research Areas:
n/a

ADMISSION INFORMATION

Program may have additional requirements; check before applying.

DEGREE PROGRAM REQUIREMENTS:
Please contact Electrical Engineering for information.

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

OTHER INFORMATION:
N/a
Elementary Education Program
M.A.

DEGREE INFORMATION

Type of Degree Offered:
- M.A.

Concentrations Offered:
- Early Childhood
- Elementary Curriculum
- Language Arts
- Literacy in a Diverse Society - not accepting students
- Science and Mathematics - Active only on the St. Pete Campus

Also offered as:
- a Specialization/Concentration under Curriculum and Instruction (Ph.D.) and Education Program Development (Ed.D.)

Also offered at St. Petersburg

Program Status: Active

CONTACT INFORMATION

Program Director: Barry Morris
Other Contact:
Phone: 813-974-2458
Fax: 813-974-3460
Email: morris@tempest.coedu.usf.edu
Web Address: http://www.coedu.usf.edu/college/program_information.cf
Mailing Address:
University of South Florida
Childhood/Language Arts/Reading Education
Elementary Education Program
4202 E. Fowler Avenue,
Tampa, FL 33620

PROGRAM INFORMATION

Offered under Plan I - A program of study designed for those with a bachelor’s degree and appropriate initial certification in the specialization are who desire to increase their competence in a subject Specialization or to receive professional preparation in one of the service areas.

Accreditation:
Accredited by the Commission on Colleges of the Southern Association of College and Schools. National Council for the Accreditation of Teacher Education (NCATE): Florida Department of Education.

Major Research Areas:
n/a

ADMISSION INFORMATION

Program may have additional requirements; check before applying.

DEGREE PROGRAM REQUIREMENTS:
Each area of concentration/specialization requires a minimum of 33 hours.

Process Core 6 hours
EDF 6481
EDF 6120 or EDF 6215* or equivalent

(EDF 6215 is required for the Literacy in a Diverse Society Concentration.)

Required Program Core (across all areas of concentration/specialization) 6 hours
EDG 6935
LAE 6415 or LAE 6316*

Concentration/Specialization Areas - 18 hours minimum
(The student may choose one of the following):

A. Elementary Curriculum
Concentration/Specialization 18 hours minimum
Current Trends 3 hours
Comprehensive Examination
An individually planned program of courses selected with a departmental advisor

B. Language Arts Specialization 18 hours minimum
Current Trends (LAE 6316) 3 hours
Concentration/Specialization - 18 hours
LAE 6301 LAE 6315 RED 6544 RED 6545
Comprehensive Examination

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

OTHER INFORMATION:
N/a
Elementary Education Program
M.A.T.

DEGREE INFORMATION

Type of Degree Offered:
- M.A.T.

Concentrations Offered:
Early Childhood
Elementary Curriculum
Language Arts
Literacy in a Diverse Society - not currently accepting students
Science and Mathematics - Active only on the St. Pete Campus

Also offered as:
a Specialization/Concentration under Curriculum and Instruction (Ph.D.) and Education Program Development (Ed.D.)

Program Status: Active

CONTACT INFORMATION

Program Director: Barry Morris
Other Contact: Phone: 813-974-2458
Fax: 813-974-3460
Email: morris@tempest.coedu.usf.edu
Web Address: http://www.coedu.usf.edu/college/program_information.cfm?id=3

Mailing Address:
University of South Florida
Childhood/Language Arts/Reading Education
Elementary Education Program
4202 E. Fowler Avenue, EDU162
Tampa, FL 33620

PROGRAM INFORMATION

Students can earn an ESOL endorsement at the same time as a Master's Degree in Elementary Education. The special requirements for ESOL endorsement through infusion are as follows: Successful completion of (1) ESOL 1, 2, and 3, with a minimum grade of 70% or better on all three sections of the ESOL Comprehensive Exam administered in the three ESOL courses; (2) a 20-hour early ESOL field experience in ESOL 1; (3) a late ESOL field experience where students plan, implement, and evaluate lessons for one or more ESOL students over a series of weeks; and (4) an ESOL folder, containing all assignments and test results from ESOL 1, 2, and 3.

Contact program for specific information, and www.coedu.usf.edu/sas for internship and State of Florida testing requirements.

Plan III This program trick is also available for students who do not desire certification. (See College listing or contact program for more information.)

Please be advised that program and/or course requirements are subject to change, per state legislative mandates, Florida State Department of Education program approval standards, and accreditation criteria.

Accreditation:
Accredited by the Commission on Colleges of the Southern Association of College and Schools. National Council for the Accreditation of Teacher Education (NCATE): Florida Department of Education.

Major Research Areas:
n/a

ADMISSION INFORMATION

Program may have additional requirements; check before applying.

DEGREE PROGRAM REQUIREMENTS:

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

OTHER INFORMATION:

N/a
Engineering Program
M.S.E.

DEGREE INFORMATION

Type of Degree Offered:
Master of Science in Engineering - M.S.E.

Concentrations Offered:
available in each department.

Also offered as:
n/a

Program Status: Active

CONTACT INFORMATION

Program Director: Carlos A. Smith
Other Contact: 813-974-3782
Phone: 813-974-5094
Fax: cs smith@eng.usf.edu
Email: eng.usf.edu
Web Address: http://www2.eng.usf.edu/

Mailing Address:
University of South Florida
Engineering (Post-Baccalaureate)
Engineering Program
4202 E. Fowler Avenue, ENB118
Tampa, FL 33620

PROGRAM INFORMATION

This degree is normally awarded to a student who has an undergraduate degree in engineering or who has completed a prescribed series of undergraduate engineering courses, and completes an all coursework program.

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

Major Research Areas:
n/a

ADMISSION INFORMATION

Program may have additional requirements; check before applying.

DEGREE PROGRAM REQUIREMENTS:
Each department in the College is authorized to offer this degree. Please check with the individual department for requirements.

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

OTHER INFORMATION:
N/a
Engineering Management Program
M.S.E.M.

DEGREE INFORMATION

Type of Degree Offered:
Master of Science in Engineering Management - M.S.E.M.

Concentrations Offered:
Contact Program Director.

Also offered as:
n/a

Program Status: Active

CONTACT INFORMATION

Program Director: Dolores Gooding
Other Contact: n/a
Phone: 813-974-2269
Fax: 813-974-5953
Email: ghanshaw@eng.usf.edu
Web Address: http://www2.eng.usf.edu/

Mailing Address:
University of South Florida
Industrial and Management Systems Engineering
Engineering Management Program
4202 E. Fowler Avenue, ENB118
Tampa, FL 33620

PROGRAM INFORMATION

This program is designed to prepare engineers from various disciplines to make the transition to technical management. Courses in the program involve concepts in engineering management, resource management, strategic planning, and productivity. They combine qualitative approaches with quantitative techniques. Courses are available on campus or the internet via the FEEDS system.

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

Major Research Areas:
N/a

ADMISSION INFORMATION

Program may have additional requirements; check before applying.

DEGREE PROGRAM REQUIREMENTS:
A minimum of 33 credits of approved coursework beyond the bachelor level is required - 18 credits of core work and 15 credits of electives. A thesis option is available to M.S.E.M. students who are interested in applied research. Up to 6 hours of advanced courses in the student’s area of specialty may be taken as electives.

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

OTHER INFORMATION:
N/a
### Engineering Management Program
**M.S.E.S.**

**DEGREE INFORMATION**

<table>
<thead>
<tr>
<th>Type of Degree Offered:</th>
<th>Master of Science in Engineering Science - M.S.E.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Concentrations Offered:</td>
<td>Contact Program Director.</td>
</tr>
<tr>
<td>Also offered as:</td>
<td>n/a</td>
</tr>
<tr>
<td>Program Status:</td>
<td>Active</td>
</tr>
</tbody>
</table>

**CONTACT INFORMATION**

| Program Director:               | Dolores Gooding                                  |
| Other Contact:                  |                                                   |
| Phone:                          | 813-974-2269                                     |
| Fax:                            | 813-974-5953                                     |
| Email:                          | ghanshaw@eng.usf.edu                             |
| Web Address:                    | http://www2.eng.usf.edu/                         |

| Mailing Address:                |                                                   |
| University of South Florida     |                                                   |
| Industrial and Management Systems |                                                   |
| Engineering                     |                                                   |
| Engineering Management Program  |                                                   |
| 4202 E. Fowler Avenue, ENB118   |                                                   |
| Tampa, FL 33620                 |                                                   |

**PROGRAM INFORMATION**

This program is designed to prepare engineers from various disciplines to make the transition to technical management. Courses in the program involve concepts in engineering management, resource management, strategic planning, and productivity. They combine qualitative approaches with quantitative techniques. Courses are available on campus or the internet via the FEEDS system.

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

**Major Research Areas:**
n/a

**ADMISSION INFORMATION**

Program may have additional requirements; check before applying.

**DEGREE PROGRAM REQUIREMENTS:**
A minimum of 33 credits of approved coursework beyond the bachelor level is required. 18 credits of core work and 15 credits of electives. A thesis option is available to M.S.E.M. students who are interested in applied research. Up to 6 hours of advanced courses in the student’s area of specialty may be taken as electives.

**COURSES:**
See [http://www.ugs.usf.edu/sab/sabs.cfm](http://www.ugs.usf.edu/sab/sabs.cfm)

**OTHER INFORMATION:**
N/a
# Engineering Science Program
## M.S.E.S

### DEGREE INFORMATION

**Type of Degree Offered:**
Master of Science in Engineering Science - M.S.E.S

**Concentrations Offered:**
Physics (Ph.D.). Other specializations are available in each department.

**Also offered as:**
5 year M.S.E.S. program (available in each department)

**Program Status:** Active

### CONTACT INFORMATION

**Program Director:** Dolores Gooding
**Other Contact:**
**Phone:** 813-974-3782
**Fax:** 813-974-5094
**Email:**
**Web Address:** [http://www2.eng.usf.edu/](http://www2.eng.usf.edu/)

**Mailing Address:**
University of South Florida
Engineering Science
Engineering Science Program
4202 E. Fowler Avenue, ENB118
Tampa, FL 33620

### PROGRAM INFORMATION

This program is designed to meet the needs of students who wish to pursue studies in interdisciplinary engineering areas. A strong foundation in rigorous scientific and engineering principles and practice is expected. It is normally awarded for completion of a thesis program.

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

**Major Research Areas:**
n/a

### ADMISSION INFORMATION

Program may have additional requirements; check before applying.

### DEGREE PROGRAM REQUIREMENTS:

Each department in the College is authorized to offer the Master of Science in Engineering Science and the Master of Science in Engineering. These degrees are individually tailored to student needs. Please check with the individual department for requirements.

**COURSES:**
See [http://www.ugs.usf.edu/sab/sabs.cfm](http://www.ugs.usf.edu/sab/sabs.cfm)

### OTHER INFORMATION:

N/a
Engineering Science Program
Ph.D.

DEGREE INFORMATION

Type of Degree Offered:
Doctor of Philosophy - Ph.D.

Concentrations Offered:
Physics (Ph.D.). Other specializations are available in each department.

Also offered as:
5 year M.S.E.S. program (available in each department)

Program Status: Active

CONTACT INFORMATION

Program Director: Dolores Gooding
Other Contact:
Phone: 813-974-3782
Fax: 813-974-5094
Email:
Web Address: http://www2.eng.usf.edu/

Mailing Address:
University of South Florida
Engineering Science
Engineering Science Program
4202 E. Fowler Avenue, ENB118
Tampa, FL 33620

PROGRAM INFORMATION

This program is designed to meet the needs of students who wish to pursue doctoral studies in interdisciplinary engineering areas. To derive maximum benefit, the student’s dissertation committee should be constructed to draw on the expertise of the cooperating departments in Engineering and other appropriate discipline.

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

Major Research Areas:
N/a

ADMISSION INFORMATION

Program may have additional requirements; check before applying.

DEGREE PROGRAM REQUIREMENTS:
Contact the program for information.

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

OTHER INFORMATION:
N/a
English Program
M.A.

DEGREE INFORMATION

Type of Degree Offered:
Master of Arts - M.A.

Concentrations Offered:
Literature
Rhetoric and Composition
Creative Writing (M.A. only)

Also offered as:
n/a

Program Status: Active

PROGRAM INFORMATION

The M.A. in English with a concentration in Literature is designed primarily to train advanced students of literature. The program requires study of both literature and composition. The M.A. in English with a concentration in Rhetoric and Composition is designed primarily to train advanced students of literature and Rhetoric.

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

Major Research Areas:
n/a

ADMISSION INFORMATION

Program may have additional requirements; check before applying.

DEGREE PROGRAM REQUIREMENTS:
Program of Study 33 Credit Hours
ENG 6009 (3) (this should be taken early in the sequence)
LAE 6375 (3)

Concentration Courses
Literature
ENG 6018 (3)
ENG 6019 – Studies in Criticsm & Theory II (3)
Two of the following: ENL 6206 (3) ENL 6216 (3) ENL 6226 (3) ENL 6228 (3) ENL 6236 (3) AML 6017 (3)
Two of the following: ENL 6246 (3) ENL 6256 (3) ENL 6276 (3) AML 6018 (3) AML 6027 (3) LIT 6096 (3)

Thesis-ENG 6971 or
Students may opt to fulfill the non-thesis option in which they submit two critical papers. For detailed guidelines, contact the department.

CONTACT INFORMATION

Program Director: John Hatcher
Other Contact: n/a
Phone: 813-974-2421
Fax: 813-974-2270
Email: jhatcher@cas.usf.edu
Web Address: http://www.cas.usf.edu/english/

Mailing Address:
University of South Florida
English
English Program
4202 E. Fowler Avenue, CPR 107
Tampa, FL  33620

Rhetoric and Composition
ENC 6336 (3)
ENC 6700 (3) ENC 6720 (3)
Two courses (6) in American, British, or World Literature
Two electives (6) in Literature or Rhetoric and Composition

Thesis - ENG 6971 (3) on a Rhetoric & Composition subject plus an oral defense or an M.A. exam tailored to the student’s particular research specialization. A three-member examination committee chosen by the student will write questions and evaluate answers for the M.A. exam. The exam will take place over three days, and each day will follow the same format: three one-hour questions from which the student chooses one, and eight fifteen minute questions from which the student chooses four.

Creative Writing
CRW 6130 (3)
CRW 6331 (3)
CRW 6137 (3)
LIT 6096
One of the following:
CRW 6132 (3)
CRW 6352 (3)

Three of the following:
AML 6017 (3) AML 6018 (3) AML 6027 (3) AML 6607 (3)
ENL 6206 (3) ENL 6216 (3) ENL 6226 (3) ENL 6228 (3)
ENL 6236 (3) ENL 6246 (3) ENL 6256 (3) ENL 6276 (3)

Thesis – ENG 6971 (3)

Comprehensive Examination - All M.A. students in Literature will be required to write a comprehensive exam. Specifics of the exam can be found at
M.A. students in Rhetoric and Composition must orally defend a thesis OR opt to take an M.A. exam tailored to the student’s particular research specialization (this option replaces the thesis requirement). M.A. students in Creative Writing do not have a comprehensive examination, but must submit a thesis following specific guidelines.

A student may transfer up to 6 hours of credit from another university; up to 12 hours taken as a non-degree seeking student. Up to 6 hours may be taken in another department (the courses to be approved in advance by the Department of English Graduate Committee). A student receiving one grade of “C” or lower in a graduate course will be placed on academic probation. A student receiving two grades of “C” or lower will be dismissed from the program, subject to a review by the departmental Graduate Committee.

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

**English Graduate Certificates Offered:**
Creative Writing – contact Professor Rita Ciresi at reiresi@chuma.cas.usf.edu
Comparative and Interdisciplinary Literary Studies – contact Dr. Silvia Fiore at sfiore@chuma1.cas.usf.edu
Teaching Composition – contact Dr. Debra Jacobs at djacobs@chuma1.cas.usf.edu

**COURSES:**
See [http://www.ugs.usf.edu/sab/sabs.cfm](http://www.ugs.usf.edu/sab/sabs.cfm)

**OTHER INFORMATION:**
N/a
English Program
Ph.D.

DEGREE INFORMATION

Type of Degree Offered:
Doctor of Philosophy - Ph.D.

Concentrations Offered:
Literature
Rhetoric and Composition
Creative Writing (M.A. only)

Also offered as:
n/a

Program Status:

CONTACT INFORMATION

Program Director: John Hatcher
Other Contact: n/a
Phone: 813-974-2421
Fax: 813-974-2270
Email: jhatcher@cas.usf.edu
Web Address: http://www.cas.usf.edu/english/

Mailing Address:
University of South Florida
English
English Program
4202 E. Fowler Avenue, CPR 107
Tampa, FL 33620

PROGRAM INFORMATION

The goal of this program is to produce teacher-scholars who have a good general knowledge of British and American literature and a special knowledge of their fields of concentration. Each student in the program must take courses in teaching college English; these courses include actual teaching experience.

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

Major Research Areas:
n/a

ADMISSION INFORMATION
Program may have additional requirements; check before applying.

DEGREE PROGRAM REQUIREMENTS:
The Ph.D. in English involves a minimum of 30 hours of course work beyond the M.A. degree, exclusive of credits devoted to the foreign language and tools-of-research requirements and the doctoral dissertation. Included in these hours, if not taken on the Master’s level, must be ENC 6319, ENG 6009, LAE 7376 – or LAE 7390, ENG 6018, and ENG 7939, which must be taken twice. A dissertation is required. After completing the necessary course work a student must take a nine-hour written doctoral comprehensive exam. Students passing this exam and fulfilling the foreign language/tools-of-research requirements are admitted to doctoral candidacy. Students failing this exam more than once are dismissed from the program. After completion of an approved dissertation, the student will defend this dissertation in a two-hour oral examination and may also be examined in the major field. The doctoral degree is awarded after successful completion of the dissertation and the dissertation defense.

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

OTHER INFORMATION:
N/a
English Education Program
M.A.

DEGREE INFORMATION

Type of Degree Offered:
Master of Arts - M.A.

Concentrations Offered:
n/a

Also offered as:
Specialization/Concentration under Curriculum and Instruction (M.Ed., Ed.S., Ph.D.)

Program Status:  Active

CONTACT INFORMATION

Program Director:  Pat Daniel
Other Contact:  n/a
Phone:  813-974-3533
Fax:  813-974-3837
Email:  pdaniel@tempest.coedu.usf.edu
Web Address:

Mailing Address:
University of South Florida
Secondary Education
English Education Program
4202 E. Fowler Avenue, EDU162
Tampa, FL  33620

PROGRAM INFORMATION

A program of study designed for those with a bachelor’s degree in the field and appropriate initial certification who desire to increase their competence in a subject concentration.

Accreditation:
Accredited by the Commission on Colleges of the Southern Association of College and Schools (SACS) and national Council for the Accreditation of Teacher Education (NCATE)?national Council of Teachers of English (NCTE) for the MA Plan II

Major Research Areas:
n/a

ADMISSION INFORMATION

Program may have additional requirements; check before applying.

M.A.

DEGREE PROGRAM REQUIREMENTS:

Program of Study  - 33 hours minimum

Process Core 3 hours minimum
Current Trends in Teaching Specialization 3 hours
Professional English Education Courses 3 hours
Content Specialization (Concentration) Area 18 hours minimum
Based on the prior background of the student and the current certification requirements.
Electives (may be taken from the following areas: English, English Education or Process Core)
Comprehensive examination (Required in both English and English Education.)

Plan II and Plan III programs are available for those who do not hold teaching certification but have a baccalaureate degree in English.

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

OTHER INFORMATION:
N/a
English Education Program
M.A.T.

DEGREE INFORMATION

Type of Degree Offered:
Master of Arts in Teaching - M.A.T.

Concentrations Offered:
n/a

Also offered as:
Specialization/Concentration under Curriculum and Instruction (M.Ed., Ed.S., Ph.D.)

Program Status:  Active

CONTACT INFORMATION

Program Director:  Pat Daniel
Phone:  813-974-3533
Fax:  813-974-3837
Email:  pdaniel@tempest.coedu.usf.edu
Web Address:  http://www.coedu.usf.edu/seced/
Mailing Address:
University of South Florida
Secondary Education
English Education Program
4202 E. Fowler Avenue, EDU162
Tampa, FL  33620

PROGRAM INFORMATION

Students can earn an ESOL endorsement at the same time as a Master’s Degree in English Education. The special requirements for ESOL endorsement through infusion are as follows: Successful completion of (1) ESOL 1, 2, and 3, with a minimum grade of 70% or better on all three sections of the ESOL Comprehensive Exam administered in the three ESOL courses; (2) a 20-hour early ESOL field experience in ESOL 1; (3) a late ESOL field experience where students plan, implement, and evaluate lessons for one or more ESOL students over a series of weeks; and (4) an ESOL folder, containing all assignments and test results from ESOL 1, 2, and 3. Prepares educators for teaching English language arts in a 6-12 environment.

Accreditation:
Accredited by the Commission on Colleges of the Southern Association of College and Schools (SACS) and national Council for the Accreditation of Teacher Education (NCATE)?national Council of Teachers of English (NCTE) for the MA Plan II

Major Research Areas:
n/a

ADMISSION INFORMATION

Program may have additional requirements; check before applying.

DEGREE PROGRAM REQUIREMENTS:
39 hours minimum
English education methods 12 hours
Current Trends in Teaching Specialization 3 hours
ESOL 9 hours
Core process 9 hours
Internship 6 hours
Comprehensive Examination in English Education

Please be advised that program and/or course requirements are subject to change, per state legislative mandates, Florida Department of Education program approval standards, and accreditation criteria.

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

OTHER INFORMATION:
N/a
Environmental Engineering Program
M.E.

DEGREE INFORMATION

Type of Degree Offered:
Master of Engineering - M.E.

Concentrations Offered:
N/A

Also offered as:
N/A

Program Status:
N/A

CONTACT INFORMATION

Program Director:
Ram M. Pendyala

Other Contact:

Phone:
813-974-2275

Fax:
813-974-2957

Email:
pendyala@eng.usf.edu

Web Address:
http://ce.eng.usf.edu/

Mailing Address:
University of South Florida
Civil and Environmental Engineering
Environmental Engineering Program
4202 E. Fowler Avenue, ENB118
Tampa, FL 33620

PROGRAM INFORMATION

The M.E. degree provides a student with the opportunity to earn the advanced degree by coursework only. Students in Environmental Engineering may receive either the M.E.V.E. degree or one of the other Master of Engineering degrees. Environmental Engineering students who do not opt to receive the M.E.V.E. degree will receive the MCE degree if they have an undergraduate degree in Civil Engineering or the ME degree if they do not. Many of the department’s graduate courses are offered on weekday evenings, which permits part-time and FEEDS (Florida Engineering Education Delivery System) students the opportunity to seek a graduate degree.

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

Major Research Areas:
The field of Civil Engineering has long been known for its breadth and ability to adapt to the new technological needs of society. The traditional areas of public works, such as highways, bridges, water supply, building design, and wastewater treatment, remain very important. In addition, the modern area of managing the environment has been included in the Civil Engineering domain. Graduates of the programs are prepared for careers with public agencies or private industry and firms involved in planning, design, research and development, or regulation. College computer facilities are available to all departmental students. In addition, the department has a variety of microcomputers available for student use. The department also has a high bay structures laboratory, which includes an MTS 250 kip-testing machine. There are also well-equipped environmental, soils, pavement and hydraulics laboratories. These laboratories include equipment such as an ion chromatograph, atomic absorption unit, environmental chamber, constant rate of stress consolidometer, triaxial units and superpave testing equipment.

ADMISSION INFORMATION

Program may have additional requirements; check before applying.

DEGREE PROGRAM REQUIREMENTS:
The minimum coursework requirement for the Master of Engineering degrees is 33 credit hours. Environmental Engineering check link http://ce.eng.usf.edu for information.

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

OTHER INFORMATION:
N/A
Environmental Engineering Program
M.E.V.E.

DEGREE INFORMATION

Type of Degree Offered:
Master of Environmental Engineering - M.E.V.E.

Concentrations Offered:
n/a

Also offered as:

n/a

Program Status:

CONTACT INFORMATION

Program Director: Ram M. Pendyala
Other Contact:
Phone: 813-974-2275
Fax: 813-974-2957
Email: pendyala@eng.usf.edu
Web Address: http://ce.eng.usf.edu/

Mailing Address:
University of South Florida
Civil and Environmental Engineering
Environmental Engineering Program
4202 E. Fowler Avenue, ENB118
Tampa, FL 33620

PROGRAM INFORMATION

The M.E. degree provides a student with the opportunity to earn the advanced degree by coursework only. Students in Environmental Engineering may receive either the M.E.V.E. degree or one of the other Master of Engineering degrees. Environmental Engineering students who do not opt to receive the M.E.V.E. degree will receive the MCE degree if they have an undergraduate degree in Civil Engineering or the ME degree if they do not. Many of the department’s graduate courses are offered on weekday evenings, which permits part-time and FEEDS (Florida Engineering Education Delivery System) students the opportunity to seek a graduate degree.

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

Major Research Areas:
The field of Civil Engineering has long been known for its breadth and ability to adapt to the new technological needs of society. The traditional areas of public works, such as highways, bridges, water supply, building design, and wastewater treatment, remain very important. In addition, the modern area of managing the environment has been included in the Civil Engineering domain. Graduates of the programs are prepared for careers with public agencies or private industry and firms involved in planning, design, research and development, or regulation. College computer facilities are available to all departmental students. In addition, the department has a variety of microcomputers available for student use. The department also has a high bay structures laboratory, which includes an MTS 250 kip-testing machine. There are also well-equipped environmental, soils, pavement and hydraulics laboratories. These laboratories include equipment such as an ion chromatograph, atomic absorption unit, environmental chamber, constant rate of stress consolidometer, triaxial units and superpave testing equipment.

ADMISSION INFORMATION
Program may have additional requirements; check before applying.

DEGREE PROGRAM REQUIREMENTS:
The minimum coursework requirement for the Master of Engineering degrees is 33 credit hours. Environmental Engineering check link http://ce.eng.usf.edu for information.

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

OTHER INFORMATION:
N/a
Environmental Engineering Program
M.S.E.S.

DEGREE INFORMATION

Type of Degree Offered:
Master of Science in Engineering Science - M.S.E.S.

Concentrations Offered:
n/a

Also offered as:

Program Status:
n/a

CONTACT INFORMATION

Program Director: Ram M. Pendyala
Other Contact:
Phone: 813-974-2275
Fax: 813-974-2957
Email: pendyala@eng.usf.edu
Web Address: http://ce.eng.usf.edu/

Mailing Address:
University of South Florida
Civil and Environmental Engineering
Environmental Engineering Program
4202 E. Fowler Avenue, ENB118
Tampa, FL 33620

PROGRAM INFORMATION

The M.E. degree provides a student with the opportunity to earn the advanced degree by coursework only. Students in Environmental Engineering may receive either the M.E.V.E. degree or one of the other Master of Engineering degrees. Environmental Engineering students who do not opt to receive the M.E.V.E. degree will receive the MCE degree if they have an undergraduate degree in Civil Engineering or the ME degree if they do not. Many of the department’s graduate courses are offered on weekday evenings, which permits part-time and FEEDS (Florida Engineering Education Delivery System) students the opportunity to seek a graduate degree.

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

Major Research Areas:
The field of Civil Engineering has long been known for its breadth and ability to adapt to the new technological needs of society. The traditional areas of public works, such as highways, bridges, water supply, building design, and wastewater treatment, remain very important. In addition, the modern area of managing the environment has been included in the Civil Engineering domain. Graduates of the programs are prepared for careers with public agencies or private industry and firms involved in planning, design, research and development, or regulation. College computer facilities are available to all departmental students. In addition, the department has a variety of microcomputers available for student use. The department also has a high bay structures laboratory, which includes an MTS 250 kip-testing machine. There are also well-equipped environmental, soils, pavement and hydraulics laboratories. These laboratories include equipment such as an ion chromatograph, atomic absorption unit, environmental chamber, constant rate of stress consolidometer, triaxial units and superpave testing equipment.

ADMISSION INFORMATION

Program may have additional requirements; check before applying.

DEGREE PROGRAM REQUIREMENTS:
The minimum coursework requirement for the Master of Engineering degrees is 33 credit hours. Environmental Engineering check link http://ce.eng.usf.edu for information.

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

OTHER INFORMATION:
N/a
Environmental Engineering Program

M.S.E.V.

DEGREE INFORMATION

Type of Degree Offered:
Master of Science in Environmental Engineering – M.S.E.V.

Concentrations Offered:
n/a

Also offered as:
n/a

Program Status:

CONTACT INFORMATION

Program Director: Ram M. Pendyala
Other Contact: 
Phone: 813-974-2275
Fax: 813-974-2957
Email: pendyala@eng.usf.edu
Web Address: http://ce.eng.usf.edu/

Mailing Address:
University of South Florida
Civil and Environmental Engineering
Environmental Engineering Program
4202 E. Fowler Avenue, ENB118
Tampa, FL 33620

PROGRAM INFORMATION

The M.E. degree provides a student with the opportunity to earn the advanced degree by coursework only. Students in Environmental Engineering may receive either the M.E.V.E. degree or one of the other Master of Engineering degrees. Environmental Engineering students who do not opt to receive the M.E.V.E. degree will receive the MCE degree if they have an undergraduate degree in Civil Engineering or the ME degree if they do not. Many of the department’s graduate courses are offered on weekday evenings, which permits part-time and FEEDS (Florida Engineering Education Delivery System) students the opportunity to seek a graduate degree.

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

Major Research Areas:
The field of Civil Engineering has long been known for its breadth and ability to adapt to the new technological needs of society. The traditional areas of public works, such as highways, bridges, water supply, building design, and wastewater treatment, remain very important. In addition, the modern area of managing the environment has been included in the Civil Engineering domain. Graduates of the programs are prepared for careers with public agencies or private industry and firms involved in planning, design, research and development, or regulation. College computer facilities are available to all departmental students. In addition, the department has a variety of microcomputers available for student use. The department also has a high bay structures laboratory, which includes an MTS 250 kip-testing machine. There are also well-equipped environmental, soils, pavement and hydraulics laboratories. These laboratories include equipment such as an ion chromatograph, atomic absorption unit, environmental chamber, constant rate of stress consolidometer, triaxial units and superpave testing equipment.

ADMISSION INFORMATION
Program may have additional requirements; check before applying.

DEGREE PROGRAM REQUIREMENTS:
The minimum coursework requirement for the Master of Engineering degrees is 33 credit hours. Environmental Engineering check link http://ce.eng.usf.edu for information.

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

OTHER INFORMATION:
N/a
Environmental Science and Policy Program
M.S.

DEGREE INFORMATION

Type of Degree Offered:
Master of Science - M.S.

Concentrations Offered:
n/a

Also offered as:
n/a

Program Status:

CONTACT INFORMATION

Program Director: L. Donald Duke
Other Contact: n/a
Phone: 813-974-2739
Fax: 813-974-2184
Email: klenschad@cas.usf.edu
Web Address: http://www.cas.usf.edu/esp/

Mailing Address:
University of South Florida
Environmental Science and Policy
Environmental Science and Policy Program
4202 E. Fowler Avenue, SCA238
Tampa, FL 33620

PROGRAM INFORMATION

Contact the program for information.

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

Major Research Areas:
n/a

ADMISSION INFORMATION

Program may have additional requirements; check before applying.

DEGREE PROGRAM REQUIREMENTS:
The curriculum consists of 36 credits divided into 3 categories.
Core Requirements 15 credits
Elective Requirements 15-18 credits
Thesis/Project 3-6 credits

Core Requirements
1) Applications/Tools: Students may select, with the advice of their committee, one of the following to fulfill the requirement for an applications/tool course.
a. CGS 5765 – Introduction to Unix and C
b. EML 4071 – Introduction to Visual Basics for Engineers and Scientists
c. GEO 5142 – Geographic Information Systems for Non-Majors
d. GEO 5157 – Advance Geographic Information Systems
e. STA 5166 – Computational Statistics I (or other statistics course approved by ESP)

2) Environmental Thought and Communication – Students will learn about the history, scope, and meaning of the environmental movement. They will be exposed to a wide variety of alternative perspectives as well as techniques of effective communication (this course is currently being offered by the Dept of Geography – GEO 6116)

3) Seminar in Environmental Science (EVR 6936) – Students will learn to integrate scientific information from various disciplinary focuses including geology, biology, chemistry, and marine science.

4) Seminar in Environmental Policy (EVR 6937) – Students will learn to integrate policy related information from various disciplines including political science, economics, philosophy, geography, public administration, communication and education.

5) Case Studies in Environmental Science and Policy (EVR 6922) – This course is designed as a capstone course where, with the help of specific cases, students will learn the integration of science and policy in the real world.

Elective Requirements:
Students may select any one of the following areas as their elective area. They must take all their elective credits in the specified area. However, they may ask permission from their advisor to take one course (3 credits) outside of their elective area as long as such a course is directly relevant to their area of interest. For information on the specific courses, please refer to the dept. for information.

1. Ecology/Biology 15 credits taken in the Dept of Biology. Most of these will be in the environmental area.

2. Environmental Management 15 credits in Environ. Management

3. Geology 15 credits taken in the Dept of Geology. Most of these will be in the environmental area.

4. Hydrogeology 15 credits as required by the Grad Cert. in Hydrogeology.
5. Public Management 15 credits as required by the Grad Cert. in Public Management.

6. Solid and Hazardous Waste Management 15 credits as required by the Grad Cert. in Solid & Hazardous Waste Management.


**Thesis/Project**

Students must complete either a thesis (6 credits) or a project (3 credits with extra 3 credits to be completed in the elective area). Students must form their Supervisory Committee before the completion of any 12 credits in the program and before they take any electives. The Supervisory committee will advise students on their selection of elective courses and thesis/project. The Supervisory Committee will consist of at least one member from the ESP core faculty and one member from the department/program offering the elective track.

**COURSES:**

See [http://www.ugs.usf.edu/sab/sabs.cfm](http://www.ugs.usf.edu/sab/sabs.cfm)

**OTHER INFORMATION:**

N/a
Executive M.B.A. Program
M.B.A.

DEGREE INFORMATION
Type of Degree Offered:
Master of Business Administration - M.B.A.

Concentrations Offered:
Finance
Management

Also offered as:
Business Administration (M.B.A.)
Executive MBA for Physicians (Not accepting students)
Saturday MBA (Not accepting students)
MBA at Sarasota
MBA at St. Petersburg

Program Status: Active

CONTACT INFORMATION
Program Director: Steven Baumgarten
Other Contact: Katie Knoth
Phone: 813-974-4876
Fax: 813-974-4518
Email: emba@coba.usf.edu
Web Address: http://www.coba.usf.edu/

Mailing Address:
University of South Florida
Executive MBA
Executive M.B.A. Program
4202 E. Fowler Avenue, BSN 3403
Tampa, FL 33620

PROGRAM INFORMATION
The weekend Executive M.B.A. is a lock-step, 20-month, AACSB accredited program designed to meet the unique needs of both mid-career managers who have demonstrated the potential to reach senior management positions, and senior managers who desire to significantly increase their personal and organizational effectiveness. The program provides an opportunity to broaden and enrich management skills, to extend knowledge of modern business techniques, and to further develop understanding of the social, political, and economic forces that shape the business environment and influence decision making. Each semester begins with a three day residency session. Thereafter, classes are scheduled all day on two Saturdays and one Friday a month. The weekend format allows participants to continue carrying their careers while they master a range of managerial skills.

Accreditation:
The Commission on Colleges of the Southern Association of College and Schools, AACSB – International (Association to Advance Collegiate Schools of Business).

Major Research Areas:
n/a

ADMISSION INFORMATION
Program may have additional requirements; check before applying.

DEGREE PROGRAM REQUIREMENTS:
Executive MBA Program Curriculum
ACG 6025 Financial Accounting for Managers
MAN 6055 Human Behavior and Organization

OTHER INFORMATION: N/a
Executive M.B.A. for Physicians Program
M.B.A.

DEGREE INFORMATION

Type of Degree Offered:
Master of Business Administration (for Physicians)
- M.B.A.

Concentrations Offered:
See listing under MBA program

Also offered as:
Business Administration (MBA)
Executive MBA
Saturday MBA (Not accepting students)

Program Status: Not accepting students

CONTACT INFORMATION

Program Director: Steven Baumgarten
Other Contact: 
Phone: 813-974-2615
Fax: 813-974-4518
Email: docs@coba.usf.edu
Web Address: http://www.coba.usf.edu/

Mailing Address:
University of South Florida
Executive MBA for Physicians
Executive M.B.A. for Physicians Program
4202 E. Fowler Avenue, BSN 3403
Tampa, FL 33620

PROGRAM INFORMATION

The M.B.A. Program for Physicians is an AACSB accredited program designed to meet the unique needs and demanding schedules of physicians who want to gain the business and management skills necessary to significantly increase their personal and organizational effectiveness. The program provides an opportunity for physicians to broaden and enrich their leadership skills; to extend their knowledge of modern business techniques; and to further their understanding of the social, political, and economic forces that shape the rapidly changing health care environment. The M.B.A. Program for Physicians is structured to enhance each participant’s ability to think across functional lines and to apply analytical/business decision techniques to health care management.

Short resident sessions in Tampa are designed to introduce the range of topics to be covered and to provide concentrated instruction. These sessions also provide invaluable networking opportunities for participating physicians. Program participants are expected to devote about 15 hours per week to course readings, case studies, problem sets, and written assignments between resident sessions. Enhanced communication and learning assistance are provided via electronic mail and teleconferencing. All program participants are expected to have access to a computer and modem either at their work sites or their homes.

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

Major Research Areas:
n/a

ADMISSION INFORMATION

Program may have additional requirements; check before applying.

DEGREE PROGRAM REQUIREMENTS:
Not Accepting Students.

The program leads to the academic degree of Master of Business Administration (M.B.A.) and consists of the following segments:

- Decision Support Tools
- Financial Accounting for Managers
- Financial Management I
- Financial Management II
- Global Economic Environment of Business
- Health Policy Analysis
- Human Behavior and Organizations
- Investments
- Legal Environment of Health Care
- Management Accounting & Control
- Managerial Decision Analysis Service
- Managerial Economics
- Management of Conflict
- Management of Information Systems
- Management of Professionals
- Managing Managed Care
- Marketing Management
- Marketing Strategies
- Operations Management
- Taxation for Manager
- Total Quality Management

In addition, program participants complete an Executive Preceptorship or independent research project. The preceptorship provides the opportunity for M.B.A. candidates to work in a “mini-residency” at an approved site under the tutelage of an experienced physician-executive. The independent Research Project allows the
physician to focus on a health care management opportunity or problem of his/her interest. This innovative program feature emphasizes hands-on learning and the application of skills gained in the program to each participant’s special area of interest in health care management.

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

OTHER INFORMATION:
N/a
FOREIGN LANGUAGE EDUCATION PROGRAM
M.A.

DEGREE INFORMATION

Type of Degree Offered:
Master of Arts - M.A.

Concentrations Offered:
French (M.A.)
German (M.A.)
Spanish (M.A.)

Also offered as:
a specialization/concentration under Curriculum and Instruction (M.Ed.); a Doctor of Philosophy (Ph.D.) in the Second Language Acquisition and Instructional Technology Program.

Program Status: Active

CONTACT INFORMATION

Program Director: Tony Erben
Other Contact: terben@tempest.coedu.usf.edu
Phone: 813-974-3533
Fax: 813-974-3837
Web Address: http://www.coedu.usf.edu/deptseced/forlanged/

Mailing Address:
University of South Florida
Secondary Education
Foreign Language Education Program
4202 E. Fowler Avenue, EDU162
Tampa, FL 33620

PROGRAM INFORMATION

Prepares educators for teaching foreign language in a K-12 environment.

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

Major Research Areas:
n/a

ADMISSION INFORMATION

Program may have additional requirements; check before applying.

DEGREE PROGRAM REQUIREMENTS:

For M.A. - Plan I
Program of Study 36 hours minimum.
Process Core 3-11 hours

Current Trends in Teaching Specialization 3 hours
Professional Foreign Language Education Courses - 3 hours
Specialization (Concentration) 18 hours minimum
Comprehensive Examination: Required in both the Foreign Language and Foreign Language Education.

Plan II for students seeking initial certification. A Plan III, non-certification option is also available for those who do not desire teacher certification.

For information on Plan II and III, refer to the College of Education listing, www.coedu.usf.edu.

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

OTHER INFORMATION:
N/a
Foreign Language Education Program  
M.A.T.

DEGREE INFORMATION

Type of Degree Offered: 
Master of Arts in Teaching - M.A.T.

Concentrations Offered: 
French (M.A.)
German (M.A.)
Spanish (M.A.)

Also offered as: 
a specialization/concentration under Curriculum and Instruction (M.Ed.); a Doctor of Philosophy (Ph.D.) in the Second Language Acquisition and Instructional Technology Program.

Program Status:  Active

CONTACT INFORMATION

Program Director:  Tony Erben
Other Contact: 
Phone:  813-974-3533
Fax:  813-974-3837
Email:  terben@tempest.coedu.usf.edu
Web Address:  http://www.coedu.usf.edu/deptseced/forlanged/

Mailing Address:  
University of South Florida 
Secondary Education 
Foreign Language Education Program 
4202 E. Fowler Avenue, EDU162 
Tampa, FL 33620

PROGRAM INFORMATION

Students can earn an ESOL endorsement at the same time as a Master’s Degree in Elementary Education. The special requirements for ESOL endorsement through infusion are as follows: Successful completion of (1) ESOL 1, 2, and 3, with a minimum grade of 70% or better on all three sections of the ESOL Comprehensive Exam administered in the three ESOL courses; (2) a 20-hour early ESOL field experience in ESOL 1; (3) a late ESOL field experience where students plan, implement, and evaluate lessons for one or more ESOL students over a series of weeks; and (4) an ESOL folder, containing all assignments and test results from ESOL 1, 2, and 3. Prepares educators for teaching foreign language in a K-12 environment.

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

Major Research Areas: 
n/a

ADMISSION INFORMATION

Program may have additional requirements; check before applying.

DEGREE PROGRAM REQUIREMENTS:
Professional Foreign Language Education Courses - 15 hours
Current Trends in Teaching Specialization - 3 hours
ESOL - 9 hours
Process core - 9 hours
Internship - 6 hours
Planned observation and teaching, supervised by a member of the University faculty and school staff member.

Please refer to http://www.coedu.usf.edu/sas for specific internship entrance and State of Florida testing requirements.

Comprehensive Examination required in Foreign Language Education.

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

OTHER INFORMATION:
N/a
French Program
M.A.

DEGREE INFORMATION

Type of Degree Offered:
Master of Arts - M.A.

Concentrations Offered:
n/a

Also offered as:
n/a

Program Status:

CONTACT INFORMATION

Program Director: Roberta Tucker
Other Contact: 
Phone: 813-974-2548
Fax: 813-974-1718
Email: tucker@chuma1.cas.usf.edu
Web Address: http://www.cas.usf.edu/languages/

Mailing Address:
University of South Florida
World Language Education
French Program
4202 E. Fowler Avenue, CPR 107
Tampa, FL 33620

PROGRAM INFORMATION

Contact Program for Information.

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

Major Research Areas:
n/a

ADMISSION INFORMATION

Program may have additional requirements; check before applying.

DEGREE PROGRAM REQUIREMENTS:

1. Proficiency in a second foreign language.
2. Satisfactory completion of a written comprehensive examination on French language, literature, and civilization. This exam is based on a reading list.
3. FOW 6805 Bibliography
4. Course work following one of the plans listed below:
   Plan A - 36 hours of graduate courses in French. No thesis.
   Plan B - 36 hours, of which 27-30 graduate hours must be in one language area and 6-9 in another area/department, as approved by the French Graduate Program Director. No thesis.
   Plan C - 27 semester hours in one language area plus a thesis, with 6 hours of FRE 6971.
   Plan D - 27 semester hours, with 18-21 hours of graduate-level course work in one language area and 6-9 in another area/department, as approved by the French Graduate Program Director. In addition: a thesis, with 6 hours of FRE 6971

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

OTHER INFORMATION:

Special Summer Programs Overseas
The Division of Languages and Linguistics, in cooperation with the International Affairs Center, offers several summer study programs overseas. These include study in several locations in France and Canada. For complete details, contact the program advisors or the International Affairs Center.
Geography Program
M.A.

DEGREE INFORMATION

Type of Degree Offered:
Master of Arts - M.A.

Concentrations Offered:
Environmental Geography
Technical Geography
Urban and Social Geography

Also offered as:
Graduate Certificate: Geographic Information System
Certificate Program - go to

Program Status: Active

CONTACT INFORMATION

Program Directors: Phillip Reeder, Ph.D.
Other Contact: n/a
Phone: 813-974-4292
Fax: 813-974-4808
Email: preeder@cas.usf.edu
Web Address: http://www.cas.usf.edu/geography/

Mailing Address:
University of South Florida
Geography
Geography Program
4202 E. Fowler Avenue, SOC107
Tampa, FL 33620

PROGRAM INFORMATION

Geography is the study of the human-environment relationship either in a global or more regional context. Physical geographers focus on physical/human interrelationships and the interconnections among the various physical environmental elements. Human geographers focus on human interactions with their own environmental constructions, both built and social. Physical and human geographers both rely on specific techniques, including cartography, geographic information systems, and field work, in their research. The Department of Geography provides the opportunity to pursue the study of geography with particular emphasis on applied work geared to help solve real world problems.

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

Major Research Areas:
N/a

ADMISSION INFORMATION

Program may have additional requirements; check before applying.

DEGREE PROGRAM REQUIREMENTS:

Graduate students in Geography are required to complete 30 credit hours of graduate level courses in addition to the general graduate requirements of the university. A comprehensive written exam covering the general field of Geography is required of each student after completion of a minimum of 15 graduate credit hours. Students also will be required to defend orally their M.A. thesis or internship project after its completion.

All students must take the following core courses: GEO 6058, plus one of the following:
GEA 6195, GEA 6215, GEA 6252, GEA 6406, GEA 6504, GEA 6745

Students must select from one of the tracks listed below. Students must select three courses (9 hrs.) from the selected track, plus 6 formal credit hour electives at a level of 5000 or higher. At least one of these electives must be taken outside of the student’s track. Electives may be selected from courses outside of the Department with the consent of the student’s advisor. The remaining 9 credits must be taken as thesis (GEO 6971), internship (GEO 6944), directed research (GEO 6918), or independent study (GEO 6908)

Track A: Urban and Social
GEO 5475 GEO 5545 GEO 5605 GEO 5704
GEO 6116 GEO 6428 GEO 6566

Track B: Environmental
GEO 5134C GEO 5215 GEO 5263 GEO 5288
GEO 5347 GEO 6116 GEO 6209C GEO 6217 GEO 6286

Track C: Techniques
GEO 5134C GEO 6115 GEO 6119 GEO 5157
GEO 6137 GEO 6166 GEO 6159

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

OTHER INFORMATION:
N/a
Geology Program
M.S.

DEGREE INFORMATION

Type of Degree Offered:
Master of Science - M.S.

Concentrations Offered:
Aqueous Geochemistry
Biogeochemistry
Coastal Geology
Environmental Geophysics
Geomorphology
Hydrogeology
Paleoclimatology
Paleontology
Petrology
Tectonophysics
Volcanology

Also offered as:
n/a

Program Status:  Active

PROGRAM INFORMATION

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

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

Major Research Areas:  n/a

ADMISSION INFORMATION

Program may have additional requirements; check before applying.

DEGREE PROGRAM REQUIREMENTS:
The Department of Geology requires a candidate for the thesis-track M.S. Degree to complete at least 30 graduate credit hours. These hours are subdivided into 24 hours of structured coursework, of which at least 10 must be at the 6000 level, and at least 6 hours in thesis research (GLY 6971). The curriculum for a Geology graduate student varies depending on the area of research interest. Specific course work for the degree is determined via consultation between the student, his/her primary advisor and his/her student advisory committee. Other pertinent information regarding graduate study is contained in the Department’s Graduate Student Handbook, which is available upon request.

All degree candidates are required to maintain satisfactory academic progress at all times. Satisfactory academic progress in this program is defined as progress in course and thesis work. Evidence of academic progress includes timely completion of departmental requirements such as selecting a primary advisor, forming a student advisory committee, completion of any prerequisites or deficiencies, timely progress toward completion of the thesis including meeting with the advisory committee once each semester, maintaining a satisfactory GPA, defending a thesis proposal, and making a public presentation. A schedule for meeting these requirements is contained in the Department’s Graduate Student Handbook.

Hydrogeology Internship
M.S. Option - This program requires 30 hours of structured coursework, and a 3-credit internship project. A list of approved courses is available from the Department. Criteria for selecting appropriate internship projects are contained in the Geology Graduate handbook. Internship projects, which are supervised by Professional Geologists (PGs), must receive prior approval by the Internship Coordinator. The curriculum requires a comprehensive exit exam that is based on coursework and the internship project. Before the exit exam, the student must submit an Internship Project Report approved by the supervising PG. The hydrogeology internship committee determines the format of the exam. Normally, it is an oral examination following the student’s presentation of the results of the internship project to the hydrogeology internship committee.

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

OTHER INFORMATION:  n/a
Geology Program
Ph.D.

DEGREE INFORMATION

Type of Degree Offered:
Doctor of Philosophy - Ph.D.

Concentrations Offered:
Aqueous Geochemistry
Biogeochemistry
Coastal Geology
Environmental Geophysics
Geomorphology
Hydrogeology
Paleoclimatology
Paleontology
Petrology
Tectonophysics
Volcanology

Also offered as: n/a

Program Status: Active

CONTACT INFORMATION

Program Director: Peter J. Harries
Other Contact:
Phone: 813-974-2236
Fax: 813-974-2654
Email: harries@chuma.cas.usf.edu
Web Address: http://www.cas.usf.edu/geology/index.html

Mailing Address:
University of South Florida
Geology
Geology Program
4202 E. Fowler Avenue, SCA528
Tampa, FL 33620

PROGRAM INFORMATION

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

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

Major Research Areas:
n/a

ADMISSION INFORMATION

Program may have additional requirements; check before applying.

DEGREE PROGRAM REQUIREMENTS:
The Ph.D. program in Geology requires a minimum of 15 semester hours of graduate (6000 level) structured course work after the Master’s or equivalent. Course requirements beyond this are at the discretion of the student’s committee. All doctoral students must maintain good standing in the Office of Graduate Studies (overall GPA = 3.0) and maintain satisfactory academic progress toward the degree. Any student who receives a C in a structured course will be placed on academic probation. This probation can be terminated by achieving grades of B or higher in the subsequent semester of full-time enrollment. If a second grade of C is received, the student is terminated from the doctoral program. Only courses in which the student receives at least a B may be counted toward the 15-hour, structured-course requirement. There is also a requirement that PhD students have at least two semesters of full-time residence. While meeting the residency requirements, candidates must be full-time students in good academic standing.

General examinations and presentations of thesis proposals should be completed no later than the end of the third year in the doctoral program. The examining and dissertation committees are the same and will be comprised of no less than five members, at least three of which must be USF faculty, and at least one member from outside the department.

Admission to candidacy will be based on the results of a general examination administered by the student’s committee. The format of the exam will be determined by the committee at least one week prior to the onset of the examination. Normally, it will consist of a written section or sections, followed by an oral examination chaired by the student’s research advisor. After admission to candidacy, all doctoral students will make at least one formal presentation of their research prior to graduation. Any appropriate venue is acceptable, e.g., Dept. colloquium, oral or poster sessions at a scientific meeting of at least regional scope.

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

OTHER INFORMATION: n/a
Gerontology Program
M.A.

**DEGREE INFORMATION**

**Type of Degree Offered:**
Master of Arts - M.A.

**Concentrations Offered:**
n/a

**Also offered as:**
n/a

**Program Status:**  Active

**CONTACT INFORMATION**

**Program Director:** Cathy Envoy
**Other Contact:**
**Phone:** 813-974-2414
**Fax:** 813-974-9754
**Email:** amwoodbu@cas.usf.edu
**Web Address:** http://www.cas.usf.edu/gerontology/index.html
**Mailing Address:**
University of South Florida
School of Aging Studies
Gerontology Program
4202 E. Fowler Avenue, SOC107
Tampa, FL 33620

**PROGRAM INFORMATION**

Gerontology is the study of the process of human aging in all its aspects: physical, psychological, and social. In the School of Aging Studies, particular emphasis is placed on educating Gerontology students who, in their professional careers, will work to sustain or improve the quality of life of older people. Many of our program graduates are employed in agencies providing services for older adults. For information about the interdisciplinary Ph.D., see the separate listing for Aging Studies Ph.D.

The School offers the M.A. in Gerontology, with either a thesis or non-thesis option. In addition to completing a required core curriculum, students may select gerontology courses suited to their particular career goals. These include courses focused on such diverse areas as research, program administration, and direct service. While the M.A. program does not have separate tracks, students are advised to select courses in such concentrations as case management, administration, mental health, and research. Students should meet with their advisors to select concentrations appropriate to their professional goals.

Internships are recommended and available for students who need practical experience in the field of aging. Students interested in internships should see the school’s internship director. Following completion of the necessary coursework there is a comprehensive examination designed to test the student’s knowledge of, and ability to integrate, key concepts and information in the field of gerontology. This examination must be taken and passed by all students in the M.A. program. Students electing the thesis option must successfully pass an oral examination on the thesis. There are no language requirements.

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

**Major Research Areas:**
n/a

**ADMISSION INFORMATION**

Program may have additional requirements; check before applying.

**DEGREE PROGRAM REQUIREMENTS:**
The M.A. degree requires 36 credits of graduate study. Required courses (15 credits) include:
GEY 5620 (3)  GEY 5630 (3)  GEY 6450 (3)  GEY 6600 (3)
GEY 6613 (3)  The following courses are suggested for three focus areas:

**Case management:** GEY 6614 Psychopathology and Aging; GEY 6616 Mental Health Assessment of Older Adults; GEY 6617 Gerontological Mental Health Counseling; GEY 6618 Gerontological Group and Family Counseling; GEY 6934 Gerontological Case Management

**Administration of Services for the Aged:** GEY 6340 Housing for the Elderly; GEY 6500 Seminar in Principles of Administration; GEY 4327 Long Term Care Administration I – The Service Array; GEY 4328 Long Term Care Administration II – Institutional Care; GEY 6934 Using Computers in Adm. Decision-making

**Gerontological Research:** GEY 6934 Program Planning and Evaluation; GEY 6934 Advanced Statistics in Aging Research; GEY 6910 Directed Research in Gerontology; GEY 6920 Directed Research in Gerontology II; GEY 6971 Thesis.

The remaining 21 hours of coursework must be selected from other graduate courses in gerontology.

Comprehensive Exam
Thesis (if in Thesis option)

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

**OTHER INFORMATION:**
n/a
Guidance and Counselor Education Program
M.A.

DEGREE INFORMATION

Type of Degree Offered:
Master of Arts - M.A.

Concentrations Offered:
n/a

Also offered as:
a specialization/concentration under Curriculum and Instruction (Ed.S., Ph.D.)

Program Status: Active

CONTACT INFORMATION

Program Director: Herbert A. Exum
Other Contact:
Phone: 813-974-3515
Fax: 813-974-5814
Email: counseled@coedu.usf.edu
Web Address:
http://www.coedu.usf.edu/deptpsysoc/ce/ce.htm

Mailing Address:
University of South Florida
Psychological and Social Foundations
Guidance and Counselor Education Program
4202 E. Fowler Avenue, EDU162
Tampa, FL 33620

PROGRAM INFORMATION

The Counselor Education program provides students with the general counseling skills needed to become professional counselors. Graduates are trained to assess problems, counsel clients, select appropriate intervention strategies and consult with other professionals and administrators. All students complete a common core of courses plus additional courses appropriate to their chosen program. Included are courses in communication skills, counseling theory, research, practicum, and internship. In addition to the Master's degree and Educational Specialist degree, the program offers Graduate Certificates in Play Therapy, Mental Health Counseling, and Career Counseling. For program requirements for the Educational Specialist degree, refer to the Curriculum and Instruction Degree Program or contact the program director for information. The program offers three plans for a Master of Arts degree.

School Counseling (Plan II): Prepares counselors to work in school grades K through 12. Upon completion of this program, students are eligible to be certified by the Florida Department of Education as a School Counselor. Community/Mental Health Counseling (Plan III): Prepares counselors to work in community mental health settings and provides the educational preparation to seek licensure as a Florida Licensed Mental Health Counselor. (Note: A post-master's supervised internship and an examination are required by the state) Community/Career Counseling: Prepares counselors to work in community colleges, universities, businesses and secondary schools as a career counselor.

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

Major Research Areas:
Multicultural counseling and development, Career development, Play Therapy, Cognitive-behavioral interventions, Community mental health, and Counselor Education and supervision.

ADMISSION INFORMATION

Program may have additional requirements; check before applying.

DEGREE PROGRAM REQUIREMENTS:
Contact the program for detailed information prior to applying.

School Counseling (Plan II) Track
The School Counseling Program prepares counselors for employment in elementary, middle and/or high schools. The program is designed to produce educationally oriented counselors with broadly based, multidisciplinary backgrounds. Graduates are trained to counsel students to consult with parents, teachers, and other school personnel, to coordinate the resources of the family, school, and the community to meet the developmental needs of students. Upon completion of the program, students in this plan are eligible to become a Florida Certified School Counselor. The School Counseling Program Plan is 50 to 53 hours.

Program of Study – 50-53 hours minimum
Process Core - 11 hours EDF 6354 (4) EDF 6217 (4) EDF 4620 (3)
Current Trends in Counseling MHS 6006 (4)
Research EDF 6481 (3)
Multicultural Issues MHS 6420 (3)
Counseling Core - 23 hours

Community Counseling MHS 6200 MHS 6340 MHS 6400
Career Counseling MHS 6509 MHS 6780 MHS 6800 or SDS 6801
School Counseling Specialization/Concentration - 9 hours
MHS 6601 SDS 6820
Comprehensive Examination
Refer to [www.coedu.usf.edu/sas](http://www.coedu.usf.edu/sas) for internship and State of Florida Testing requirements.

**Plan III–Community Counseling**
Plan III programs are for students who prefer to work in community based counseling positions rather than in elementary or secondary schools. There are two Plan III program options: (a) Mental Health Counseling and (b) Career Counseling.

**A. The Community/Mental Health Counseling specialization** (a.k.a concentration) prepares students to work in a variety of community settings. This program is relatively broad in scope and focuses on the development of general counseling skills that can be applied to a wide range of clients in diverse settings. The program is designed to meet the curriculum requirements for licensure as a Mental Health Counselor in Florida. Graduates of this plan are eligible to take the state examination and to become a Florida registered intern (a post-master's degree requirement). The Community/Mental Health Counseling plan requires 60 credit hours.

**Program of Study**
- **Process Core** EDF 6354 (4)
- **Current Trends in Counseling** MHS 6006 (4)
- **Research** EDF 6481(3)
- **Multicultural Issues** MHS 6420 (3)
- **Counseling Core** - 23 hours
  - MHS 6200
  - MHS 6340
  - MHS 6400
  - MHS 6509
  - MHS 6780
  - MHS 6800
- **Mental Health Specialization** - 23 hours
  - MHS 6620
  - MHS 6070
  - MHS 6450
  - MHS 6480
  - MHS 6885
- **Comprehensive Examination**

**Community/Career Counseling Track**

**B. The Community/Career Counseling specialization** (a.k.a. concentration) focuses on the life-career development needs of individuals and groups. Individuals with this specialization typically find employment opportunities in career centers of community colleges and universities, as well as businesses and in individual practice. This specialization provides the curriculum for students to become Nationally Certified Counselors which can be acquired by passing the National Counselor Examination and completion of two years of post-masters supervised counseling experience. The plan is designed to prepare effective career counselors; it does not lead to school counseling certification nor community/mental health licensure (additional course work would be required). The Career Counseling program plan requires a minimum of 52 credit hours.

**Program of Study**
- **Process Core** EDF 6354 (4)
- **Current Trends in Counseling** MHS 6006 (4)
- **Research** EDF 6481(3)
- **Multicultural Issues** MHS 6420 (3)
- **Counseling Core** - 23 hours
  - MHS 6200
  - MHS 6340
  - MHS 6400
  - MHS 6509
  - MHS 6780
  - MHS 6800
- **Career Counseling Specialization** - 12 hours
  - MHS 6601
  - MHS 6341
  - MHS 6885
- **Elective (Options include the following)** - 3 hours
  - INP 6056
  - INP 6935
  - RCS 6300
  - EVT 6264
  - EVT 6769
  - SDS 6042
- **Comprehensive Examination**

**COURSES:**
See [http://www.ugs.usf.edu/sab/sabs.cfm](http://www.ugs.usf.edu/sab/sabs.cfm)

**OTHER INFORMATION:**
Please be advised that program and/or course requirements are subject to change, per state legislative mandates, Florida Department of Education program approval standards, and accreditation criteria. Graduate Certificates are also available in several areas. More information on the certificate programs can be obtained from the Graduate Certificate website: [http://www.outreach.usf.edu/gradcerts/certinfo.asp?certname=GE](http://www.outreach.usf.edu/gradcerts/certinfo.asp?certname=GE)
Health Administration Program
M.H.A.

DEGREE INFORMATION
Type of Degree Offered:
Master of Health Administration - M.H.A.

Concentrations Offered:
n/a

Also offered as:
n/a

Program Status:

CONTACT INFORMATION
Program Director: Magdalene Argiry
Phone: 813-974-0346
Fax: 813-974-8121
Email: advisor@hsc.usf.edu
Web Address: http://www.publichealth.usf.edu/mha.html
Mailing Address:
University of South Florida
Health Administration
Health Administration Program
13201 Bruce B. Downs Blvd.,
Tampa, FL 33612

PROGRAM INFORMATION
The MHA program prepares students for leadership positions in public and private health organizations, such as health systems, health insurance, and health agencies. This is achieved by providing a relevant curriculum that requires students to develop professional and management decision-making skills and knowledge, with application to health services and encompassing a clinical and community perspective. Students develop knowledge and skills in accounting, financial management, health economics, quantitative methods, policy analysis, information management, strategic management, and marketing. In addition, students develop knowledge and skills in leadership, human resources management, physician relations, and governance. Students develop a working knowledge of health insurance, health law and ethics, and quality and performance improvement, and develop a clinical and community perspective through the public health core courses.

Master of Health Administration graduates will be able to:
*Assess the health care system in the United States, including the role of the public health disciplines;

*Develop interpersonal and communication skills; and

*Apply critical thinking skills and knowledge to health management cases and to a health care or related organization.

Accreditation:
Accredited by the Commission on Colleges of the Southern Association of College and Schools. The College is fully accredited by the Council on Education in Public Health.

Major Research Areas:
Financial management, health economics, quantitative methods in health services, health insurance, health law, health information management, organizational model and principles applied to health settings, quality and performance improvement, health policy and policy analysis, strategic planning and marketing.

ADMISSION INFORMATION
Program may have additional requirements; check before applying.

DEGREE PROGRAM REQUIREMENTS:
Program Requirements
Prerequisites

*Public Health course prerequisites:
College requires HSC 4554 Survey of Human Diseases of comparable course for students who do not have public health or biology courses or experience.

*Suggested/preferred undergraduate majors: Life Sciences, Social Sciences, Business, or Health Professions.

*Prerequisite undergraduate courses: Micro-economics
*Work experience: Preferred, but not required
*Minimum undergrad GPA: 3.0 upper division (some exceptions made if GRE exceeds 1000)
*Verbal GRE score: 500 minimum with a total verbal and quantitative score of 1000
*Quantitative GRE score: 450 minimum with a total verbal and quantitative score of 1000

Curriculum or Plan of Study

Management and Policy (21)
PHC 6102 Principles of health Policy and Management (3)
PHC 6180 Health Services Management (3)
PHC 6420 Health Care Law, Regulation and Ethics (3)
PHC 6148 Strategic Planning and Healthcare Marketing (3)
PHC 6181 Organizational Behavior in Health Management (3)
PHC 6196 Information Systems in Health Care Management (3)
PHC 6151 Health Policy and Politics (3)

Finance, Economics and Quantitative (16)
ACG 6025 Financial Accounting for Managers (2)
ACG 6075 Management Accounting and Control (2)
PHC 6430 Health Economics I (3)
PHC 6050 Biostatistics I (3)
PHC 6161 Health Care Financial Applications (3)
PHC 6191 Quantitative Analysis in Health Care Management (3)

PHC 6435 Economics of Health Insurance (3)
PHC 6158 Managed Care (3)

Health and Communities (9)
PHC 6000 Epidemiology (3)
PHC 6357 Environmental and Occupational Health (3)
PHC 6410 Social and Behavioral Sciences Applied to Health (3)

Culminating Experiences
PHC 6945 Supervised Field Experience
*Students with little or no professional experience: 3 hours minimum
*Students with relevant professional experience: 1-3 hours minimum
*Students with substantial work experience can negotiate a reduced number of hours with their advisor (e.g., 1 or 2 hours) if the student has meaningful experience (involving decision-making) in a health care or related organization
PHC 6977 Special Project (3)
PHC 6183 Advanced Seminar in Health Care Management (2): Case-based capstone course that includes the final comprehensive exam.

Total credits: 54 plus field experience

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

OTHER INFORMATION:
N/a
History Program
M.A.

DEGREE INFORMATION

Type of Degree Offered:
Master of Arts - M.A.

Concentrations Offered:
American History
Ancient History
European History
Latin American History
Medieval History

Also offered as:
n/a

Program Status: Active

CONTACT INFORMATION

Program Director: Robert Ingalls
Phone: 813-974-2807
Fax: 813-974-6228
Email: 
Web Address: http://www.cas.usf.edu/history/

Mailing Address:
University of South Florida
Department of History
History Program
4202 E. Fowler Avenue, SOC107
Tampa, FL 33620

PROGRAM INFORMATION

The Department of History offers the M.A. degree. Members of the graduate faculty in History have earned recognition as teachers, scholars, and contributors to the community. The Department offers both a thesis and a non-thesis Master of Arts degree organized around the following fields:

Field 1: American History to 1877
Field 2: American History since 1877
Field 3: Ancient History
Field 4: Medieval History
Field 5: Early Modern Europe to 1789
Field 6: Modern Europe since 1789
Field 7: Latin America

The thesis program emphasizes preparation for further graduate study. The non-thesis program is designed to meet the needs of those students seeking a terminal degree at the master’s level.

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

Major Research Areas:
Florida history; Latin American history; US since/to 1877

ADMISSION INFORMATION

Program may have additional requirements; check before applying.

DEGREE PROGRAM REQUIREMENTS:

In addition to the general requirements of the University, a candidate is required to complete 36 hours in the following distribution:

Core Courses (HIS 6112) 4 hours
Major Field 16 hours
Minor Field 8 hours
Thesis (HIS 6971) 8 hours

Non-Thesis 8 hours of 6000 level regularly scheduled history courses.

Of the 36 hours required for the Master of Arts with thesis, at least 20 must be in formal, regularly scheduled course work. For the Master of Arts without thesis, at least 28 must be in formal, regularly scheduled course work. A minimum of 16 must be at the 6000 level. Subject to the satisfaction of above requirements, courses at the 5000 level are acceptable as part of a planned degree program. In special circumstances, major advisors may approve up to 6 hours at the 4000 level with the definite understanding that additional and superior work will be required of the graduate student. The core course, HIS 6112, “Analysis of Historical Knowledge” is required of all M.A. students.

In the thesis degree program students must be able to demonstrate a reading proficiency in one foreign language. A satisfactory preparation in the core course, two fields, and the completion of a comprehensive examination are required of all M.A. students for graduation.

Students with a major field in American History and with a thesis topic that does not require use of a foreign language may substitute quantitative methods for the language requirements. The quantitative methods option will be fulfilled by successful completion with a grade of at least “B” in one of the following courses: ANG 5937; EDF 6407; POS 5736, MAT 5932.

Upon admission, M.A. students will select a major professor who will arrange their programs of study. The student, in consultation with the major professor, solicits two other members to serve on a supervisory committee.

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

OTHER INFORMATION: N/a
Industrial Engineering Program
M.E.

DEGREE INFORMATION

Type of Degree Offered:
Master of Engineering - M.E.

Concentrations Offered:
Engineering Management (M.E., M.I.E., M.S.I.E., Ph.D.)
Manufacturing Systems (Ph.D.)
Quantitative Analysis (M.E., M.I.E., M.S.I.E., Ph.D.)

Also offered as:
N/A

Program Status: Active

CONTACT INFORMATION

Program Director: William A. Miller
Other Contact: N/A
Phone: 813-974-2269
Fax: 813-974-5953
Email: ghanshaw@eng.usf.edu
Web Address: http://ie.eng.usf.edu/adgrad.htm

Mailing Address:
University of South Florida
Industrial and Management Systems Engineering
Industrial Engineering Program
4202 E. Fowler Avenue, ENB118
Tampa, FL 33620

PROGRAM INFORMATION

The department participates in the college’s M.S.E., M.E. and M.S.E.S. programs. The department offers advanced degrees in areas of study pertinent to the design, evaluation, and operation of a variety of industrial systems, ranging from the analysis of public systems, to the service industry, to the operation of manufacturing concerns. Course topics and research opportunities include production planning, production control, facilities design, applied engineering statistics, quality control and reliability, operations research, engineering economic analysis, human factors engineering, productivity analysis, manufacturing systems, robotics, automation, and computer applications.

The department has advanced laboratory facilities that support class projects and research in microcomputer applications, computer-aided design and manufacturing, flexible automation, quality control, and applications in robotics.

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

Major Research Areas:
N/A

ADMISSION INFORMATION

Program may have additional requirements; check before applying.

DEGREE PROGRAM REQUIREMENTS:
Contact the department for information.

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

OTHER INFORMATION:
N/A
Industrial Engineering Program
M.I.E.

DEGREE INFORMATION

Type of Degree Offered:
Master of Industrial Engineering - M.I.E.

Concentrations Offered:
Engineering Management (M.E., M.I.E., M.S.I.E., Ph.D.)
Manufacturing Systems (Ph.D.)
Quantitative Analysis (M.E., M.I.E., M.S.I.E., Ph.D.)

Also offered as: n/a

Program Status: Active

CONTACT INFORMATION

Program Director: William A. Miller
Other Contact: 
Phone: 813-974-2269
Fax: 813-974-5953
Email: ghanshaw@eng.usf.edu
Web Address: http://ie.eng.usf.edu/adgrad.htm

Mailing Address:
University of South Florida
Industrial and Management Systems
Engineering
Industrial Engineering Program
4202 E. Fowler Avenue, ENB118
Tampa, FL  33620

PROGRAM INFORMATION

The department participates in the college’s M.S.E., M.E. and M.S.E.S. programs. The department offers advanced degrees in areas of study pertinent to the design, evaluation, and operation of a variety of industrial systems, ranging from the analysis of public systems, to the service industry, to the operation of manufacturing concerns. Course topics and research opportunities include production planning, production control, facilities design, applied engineering statistics, quality control and reliability, operations research, engineering economic analysis, human factors engineering, productivity analysis, manufacturing systems, robotics, automation, and computer applications.

The department has advanced laboratory facilities that support class projects and research in microcomputer applications, computer-aided design and manufacturing, flexible automation, quality control, and applications in robotics.

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

Major Research Areas:
n/a

ADMISSION INFORMATION

Program may have additional requirements; check before applying.

DEGREE PROGRAM REQUIREMENTS:
Contact the department for information.

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

OTHER INFORMATION:
N/a
Industrial Engineering Program  
M.S.E.S.

### DEGREE INFORMATION

**Type of Degree Offered:**  
Master of Science in Engineering Science - M.S.E.S.

**Concentrations Offered:**  
- Engineering Management (M.E., M.I.E., M.S.I.E., Ph.D.)  
- Manufacturing Systems (Ph.D.)  
- Quantitative Analysis (M.E., M.I.E., M.S.I.E., Ph.D.)

**Also offered as:**  
n/a

**Program Status:**  
Active

### CONTACT INFORMATION

**Program Director:**  
William A. Miller

**Phone:**  
813-974-2269

**Fax:**  
813-974-5953

**Email:**  
ghanshaw@eng.usf.edu

**Web Address:**  
http://ie.eng.usf.edu/adgrad.htm

**Mailing Address:**  
University of South Florida  
Industrial and Management Systems  
Engineering  
Industrial Engineering Program  
4202 E. Fowler Avenue, ENB118  
Tampa, FL 33620

### PROGRAM INFORMATION

The department participates in the college’s M.S.E., M.E. and M.S.E.S. programs. The department offers advanced degrees in areas of study pertinent to the design, evaluation, and operation of a variety of industrial systems, ranging from the analysis of public systems, to the service industry, to the operation of manufacturing concerns. Course topics and research opportunities include production planning, production control, facilities design, applied engineering statistics, quality control and reliability, operations research, engineering economic analysis, human factors engineering, productivity analysis, manufacturing systems, robotics, automation, and computer applications.

The department has advanced laboratory facilities that support class projects and research in microcomputer applications, computer-aided design and manufacturing, flexible automation, quality control, and applications in robotics.

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

**Major Research Areas:**  
n/a

### ADMISSION INFORMATION

Program may have additional requirements; check before applying.

### DEGREE PROGRAM REQUIREMENTS:

**Master of Science in Engineering – Manufacturing Systems Option**

In addition, the Departments of Chemical Engineering, Computer Science and Engineering, Electrical Engineering, Mechanical Engineering, and Industrial Engineering, offer a Master of Science in Engineering with a Manufacturing option (consisting of 18 hours core and either 18 hours of electives or 6 hours of electives and a thesis). The degree is administered by the Industrial Engineering Department and is a true interdisciplinary degree emphasizing Robotics, Automation, Computer Aided Design, Computer Integrated Manufacturing, Control Systems, Software Systems, Hardware Systems, and Production Systems. The student may choose electives and concentrate in one of the above departments or may choose to acquire an in-depth knowledge in one of the above emphasis areas by making their elective course choices from several departments.

Contact the department for information.

### COURSES:

See [http://www.ugs.usf.edu/sab/sabs.cfm](http://www.ugs.usf.edu/sab/sabs.cfm)

### OTHER INFORMATION:

N/a
# Industrial Engineering Program

## M.S.I.E.

### DEGREE INFORMATION

**Type of Degree Offered:** Master of Science in Industrial Engineering - M.S.I.E.

**Concentrations Offered:**
- Engineering Management (M.E., M.I.E., M.S.I.E., Ph.D.)
- Manufacturing Systems (Ph.D.)
- Quantitative Analysis (M.E., M.I.E., M.S.I.E., Ph.D.)

**Also offered as:**
- n/a

**Program Status:** Active

### CONTACT INFORMATION

- **Program Director:** William A. Miller
- **Other Contact:**
  - **Phone:** 813-974-2269
  - **Fax:** 813-974-5953
  - **Email:** ghanshaw@eng.usf.edu
  - **Web Address:** [http://ie.eng.usf.edu/adgrad.htm](http://ie.eng.usf.edu/adgrad.htm)

- **Mailing Address:**
  - University of South Florida
  - Industrial and Management Systems Engineering
  - Industrial Engineering Program
  - 4202 E. Fowler Avenue, ENB118
  - Tampa, FL 33620

### PROGRAM INFORMATION

The department participates in the college’s M.S.E., M.E. and M.S.E.S. programs. The department offers advanced degrees in areas of study pertinent to the design, evaluation, and operation of a variety of industrial systems, ranging from the analysis of public systems, to the service industry, to the operation of manufacturing concerns. Course topics and research opportunities include production planning, production control, facilities design, applied engineering statistics, quality control and reliability, operations research, engineering economic analysis, human factors engineering, productivity analysis, manufacturing systems, robotics, automation, and computer applications.

The department has advanced laboratory facilities that support class projects and research in microcomputer applications, computer-aided design and manufacturing, flexible automation, quality control, and applications in robotics.

### Accreditation:

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

**Major Research Areas:**
- n/a

### ADMISSION INFORMATION

Program may have additional requirements; check before applying.

### DEGREE PROGRAM REQUIREMENTS:

Contact the department for information.

### COURSES:

See [http://www.ugs.usf.edu/sab/sabs.cfm](http://www.ugs.usf.edu/sab/sabs.cfm)

### OTHER INFORMATION:

N/a
Industrial Engineering Program
Ph.D.

DEGREE INFORMATION

Type of Degree Offered:  
Doctor of Philosophy - Ph.D.

Concentrations Offered:  
- Engineering Management (M.E., M.I.E., M.S.I.E., Ph.D.)
- Manufacturing Systems (Ph.D.)
- Quantitative Analysis (M.E., M.I.E., M.S.I.E., Ph.D.)

Also offered as:  
n/a

Program Status:  
Active

CONTACT INFORMATION

Program Director:  
William A. Miller

Other Contact:  
Phone:  813-974-2269
Fax:  813-974-5953
Email:  ghanshaw@eng.usf.edu
Web Address:  http://ie.eng.usf.edu/adgrad.htm

Mailing Address:  
University of South Florida
Industrial and Management Systems
Engineering
Industrial Engineering Program
4202 E. Fowler Avenue, ENB118
Tampa, FL   33620

PROGRAM INFORMATION

Contact the department for information.

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

Major Research Areas:  
n/a

ADMISSION INFORMATION

Program may have additional requirements; check before applying.

DEGREE PROGRAM REQUIREMENTS:  
Contact the department for information.

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

OTHER INFORMATION:  
N/a
Junior College Teaching Program
M.A.

DEGREE INFORMATION

Type of Degree Offered:
Master of Arts - M.A.

Concentrations Offered:
- Biology
- Business (minimum score required on the GMAT)
- Chemistry
- Economics
- Engineering (Engineering Degree required)
- English
- French
- Geography
- Geology
- History
- Mathematics
- Physics
- Political Science
- Sociology
- Spanish
- Speech Communication

Also offered as:
a specialization/concentration under Curriculum and Instruction (Ed.S., Ph.D.)

Program Status: Active

CONTACT INFORMATION

Program Director: Jim Eison
Other Contact: 
Phone: 813-974-4697
Fax: 813-974-3366
Email: jeison@tempest.coedu.usf.edu
Web Address: http://www.coedu.usf.edu/college/

Mailing Address:
University of South Florida
Adult, Career, and Higher Education
Junior College Teaching Program
4202 E. Fowler Avenue, EDU162
Tampa, FL 33620

PROGRAM INFORMATION

A program for holders of baccalaureate degrees who wish to teach at the Junior/Community College Level. This program does not lead to teacher certification in the State of Florida. Areas of specialization (a.k.a. concentrations) and program codes:
- Biology (BIO 90)
- Business (BUS 90)*
- Chemistry (CHM 90)
- English (ENG 90)
- Engineering (EGP 90)**
- Economics (ECN 90)
- French (FRE 90)
- Geology (GLY 90)
- History (HTY 90)
- Mathematics (MTH 90)
- Physics (PHY 90)
- Political Science (POL 90)
- Sociology (SOC 90)
- Spanish (SPA 90)
- Speech Communications (SPE 90)

* Requires minimum score of 475 on GMAT.
** Requires Bachelor's Degree in Engineering

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

Major Research Areas:
none

ADMISSION INFORMATION

Program may have additional requirements; check before applying.

DEGREE PROGRAM REQUIREMENTS:
This program requires 36-39 hours minimum, including an internship.

Program of Study
- Process Core 3 hours - EDF 6432
- Current Trends 3 hours - EDH 6061
- Professional Education Requirement 6 hours
- EDH 6938 ADE 6385

Specialization (Concentration) 21-24 hours minimum
The sequence to be completed will be designed in consultation with an advisor in the specialization area. This program is based on the assumption that the student has an
undergraduate background in a specialization area that is equivalent to the appropriate USF major. Students admitted without such preparation may be required to take additional coursework as prerequisites. A student who is well prepared in the specialization may be permitted to take fewer courses in the specialization area, substituting approved electives from other fields of study.

Internship 3-6 hours
Supervised teaching for one or two semesters
Comprehensive Examination

Please be advised that program and/or course requirements are subject to change, per state legislative mandates, Florida Department of Education program approval standards, and accreditation criteria.

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

OTHER INFORMATION:
N/a
# Latin American, Caribbean and Latino Studies Program

## M.A.

### DEGREE INFORMATION

**Type of Degree Offered:**
Master of Arts - M.A.

**Concentrations Offered:**
n/a

**Also offered as:**
n/a

**Program Status:**
Active

### CONTACT INFORMATION

**Program Director:**
Robert Ingalls

**Other Contact:**

**Phone:**
813-974-3547

**Fax:**
813-974-8138

**Email:**
laclas@iac.usf.edu

**Web Address:**
http://web.usf.edu/~lacs/academics-grad_studies.html

**Mailing Address:**
University of South Florida
Government and International Affairs
Latin American, Caribbean and Latino Studies Program
4202 E. Fowler Avenue, CPR 107
Tampa, FL 33620

### PROGRAM INFORMATION

Contact program for information.

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

**Major Research Areas:**
n/a

### ADMISSION INFORMATION

Program may have additional requirements; check before applying.

### DEGREE PROGRAM REQUIREMENTS:

The Curriculum consists of 36 credits divided into three categories:
- Core requirements 9 credits (6 seminar, 3 methodology)
- Major Field requirements 12 credits
- Minor Field requirements 6 credits
- Additional Elective 3 credits
- Thesis or Electives 6 credits

**Core Requirements**

Students must take two interdisciplinary core seminars and a methods course upon entering the program. The core seminars, directed by an instructor of record from one of the participating departments, will familiarize students with the literature, existing knowledge, and research approaches of the various fields of area studies and invited to acquaint students with faculty and their research. The purposes of the seminars are:

* to provide an interdisciplinary graduate experience
* to foster a community of scholars and learners focused on Latin American, Caribbean, and Latino experiences

*to encourage the integration of learners into the larger Latin communities of Tampa Bay, West Florida, and the hemisphere.

Students will also take a 3-hour methodology course that acquaints them with particular research relevant to their discipline and when possible, Latin America. This includes special approaches to finding documentation from Latin America and the Caribbean; newly-available search tools available on the internet; and an overview of how disciplines utilize different research materials.

**Major and Minor Fields**

With the concurrence of the LACLAS advisor, students will elect major and minor fields during their first semester. These fields will draw heavily on participating departments (e.g. Anthropology, History, Government and International Affairs, Art History). At that time the student will constitute a supervisory committee, made up of two professors from the major field and one from the minor field. The committee members will counsel the student and serve as members of the exam or thesis committees.

A large number of courses are available to fulfill the major and minor field requirements. These are listed separately and change somewhat from year to year. Departments who frequently work with LACLAS are Anthropology, Government and International Affairs, Sociology, Mass Communication, Geography, Social Work, Women Studies, and Economics. History, Languages (i.e. World Language Education), Humanities and American Studies, Art History and Africana Studies may be used for either field at the discretion of the committee. Students may also request to have courses from other departments count toward major or minor fields.
Electives
Students can take one elective from outside the major and minor fields, in order to complement their core studies. These might be technical courses, study abroad tours, internships, math and science courses, methodology, or another unrelated field. In all cases, students must justify their elective hours to receive approval by their committees.

In addition, students opting for the non-thesis track must take one more course in each of their major and minor fields. Students considering teaching in community colleges are encouraged to take more classes in their major field.

Graduation Requirements:
At the conclusion of their coursework, students who opted for thesis must gain approval of the thesis by the committee. All candidates for the degree must also demonstrate language proficiency either by examination or by completing a 3000-level course in Spanish or Portuguese with a B or better. Finally, all non-thesis candidates must pass a 3-hour comprehensive written exam. The latter will be composed and graded by the committee. Students must also meet all College and University Graduation Requirements.

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

OTHER INFORMATION:
N/a
Liberal Arts Program
M.L.A.

DEGREE INFORMATION

Type of Degree Offered:
Master of Liberal Arts - M.L.A.

Concentrations Offered:
Africana Studies
Florida Studies (Offered in St. Petersburg)
Humanities
Liberal Studies
Social and Political Thought

Also offered as:  n/a

Program Status:  Active

CONTACT INFORMATION

Program Directors:  
Ruth Banes - Liberal Studies
Trevor Purcell - Africana Studies
Silvio Gaggi - Humanities
Stephen Turner - Soc/Pol Thought

Other Contact:
Phone:  813-974-2431
Fax:  813-974-9409
Email: 
Web Address:  http://www.cas.usf.edu/

Mailing Address:
University of South Florida
Humanities and American Studies
Liberal Arts Program
4202 E. Fowler Avenue, CPR107
Tampa, FL  33620

PROGRAM INFORMATION

The Master of Liberal Arts offers students an opportunity to study from an interdisciplinary perspective the ideas and works that have shaped world culture. Four program concentrations are available: the Liberal Studies Sequence, though broadly interdisciplinary, focuses on a concept, movement or idea. The Humanities Sequence requires a concentration in the Dept of Humanities and American Studies. The Social and Political Thought Sequence requires a program of study approved by a faculty committee. The Africana studies Sequence requires a concentration in Africana Studies. It is an interdisciplinary program that focuses on the study of African American, African, and African Diasporan culture and society.

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

Major Research Areas:
N/a

ADMISSION INFORMATION

Program may have additional requirements; check before applying.

DEGREE PROGRAM REQUIREMENTS:

Africana Studies Concentration –
Total minimum required hours (33)

Courses – 30 hours from the approved course list. Twenty-one hours must be in Africana Studies courses and 9 in approved outside electives. At least 15 hours must be at the 6000 level; four hours may be at the 4000. Satisfactory completion of a written comprehensive examination.
Thesis (3); thesis Defense

Humanities Concentration –
Total minimum required hours: (33)

Courses - 30 hours in courses from the approved list. 21 hrs. must be in Humanities courses, including HUM 6112, and 9 hrs. in approved outside electives. At least 15 hours must be at the 6000 level; 4 hours may be at the 4000 level. Satisfactory completion of a written comprehensive examination. Thesis (3); thesis Defense.

Liberal Studies Concentration –
Total minimum required hours: (33)

Courses - 30 hours in courses from the approved course list. At least 9 but no more than 12 hours must be taken in a single department. At least 20 hours must be at the 6000 level; 4 hours may be at the 4000 level. Satisfactory completion of a written comprehensive examination. Thesis (3); thesis Defense.

Social and Political Thought Concentration—
Total minimum required hours: (33)

Course - 30 hours of courses approved by a committee selected by the student from the program faculty. Eight hours may be at the 4000 level. Satisfactory completion of a written comprehensive examination. Thesis (3); thesis Defense.

All Concentrations require the student to work closely with an assigned major professor. Prior to registration for the second semester in the Liberal Studies and Africana Studies sequences, the student must submit in writing to the Master of Liberal Arts Program Director (Liberal Studies Concentration) or the Director of Africana Studies...
(Africana Studies Concentration) a signed statement of intent to focus on a particular concept, idea, theme, or area of emphasis. This statement must be approved, dated, and signed by the Director and made a part of the student’s record. Subsequent courses selected for study are expected to center around this stated focus. Variation from the focus must be approved by the Director. Courses may be taken from any of the programs listed below:

- American Studies
- Anthropology
- Art
- Communication
- Criminal Justice
- English
- Geography
- History
- Humanities

- Interdisciplinary Social Science
- Language
- Mass Communications
- Philosophy
- Political Science
- Religious Studies
- Sociology

Specific course listings for each Concentration may be obtained from the MLA office, CPR 363.

COURSES:
See [http://www.ugs.usf.edu/sab/sabs.cfm](http://www.ugs.usf.edu/sab/sabs.cfm)

OTHER INFORMATION:
N/a
Liberal Arts at St. Petersburg Program
M.L.A.

DEGREE INFORMATION

Type of Degree Offered:
Master of Liberal Arts at St. Petersburg
- M.L.A.

Concentrations Offered:
Florida Studies (Offered in St. Petersburg)

Also offered as:
Concentrations in:
Africana Studies (Offered in Tampa)
Humanities (Offered in Tampa)
Liberal Studies (Offered in Tampa)
Social and Political Thought (Offered in Tampa)

Program Status: Active

CONTACT INFORMATION

Program Director:
Dean V. Mark Durand
Phone: 727-553-4156
Fax: 727-553-4526
Email: cas@stpt.usf.edu
Web Address: http://www.cas.usf.edu/

Mailing Address:
University of South Florida
Humanities and American Studies
Liberal Arts at St. Petersburg Program
140 Seventh Avenue South,
St. Petersburg, FL  33701

PROGRAM INFORMATION

The Master of Liberal Arts offers students an opportunity to study from an interdisciplinary perspective the ideas and works that have shaped world culture. Four program concentrations are available: the Liberal Studies Sequence, though broadly interdisciplinary, focuses on a concept, movement or idea. The Humanities Sequence requires a concentration in the Dept of Humanities and American Studies. The Social and Political Thought Sequence requires a program of study approved by a faculty committee. The Africana studies Sequence requires a concentration in Africana Studies. It is an interdisciplinary program that focuses on the study of African American, African, and African Diasporan culture and society.

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

Major Research Areas:
n/a

ADMISSION INFORMATION

Program may have additional requirements; check before applying.

DEGREE PROGRAM REQUIREMENTS:

Florida Studies Concentration
Contact program for information.

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

OTHER INFORMATION:
N/a
Library and Information Science Program
M.A.

DEGREE INFORMATION

Type of Degree Offered:
Master of Arts - M.A.

Concentrations Offered:
n/a

Also offered as:
n/a

Program Status: Active

CONTACT INFORMATION

Program Director: Vicki Gregory
Other Contact: n/a
Phone: 813-974-7650
Fax: 813-974-6840
Email: lis@luna.cas.usf.edu
Web Address: http://www.cas.usf.edu/lis/

Mailing Address:
University of South Florida
Library and Information Science
Library and Information Science Program
4202 E. Fowler Avenue, CIS1040
Tampa, FL 33620

PROGRAM INFORMATION

The mission of the School of Library and Information Science is to educate students for careers and leadership roles in library and information professions that serve the needs of a culturally diverse, technological society; to contribute to the body of theoretical and applied knowledge in the discipline; and to serve current and emerging needs in the University, the community, and the profession. For Goals, Objectives, and Student Learning Outcomes, refer to the program’s web page.

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

Major Research Areas:
n/a

ADMISSION INFORMATION

Program may have additional requirements; check before applying.

DEGREE PROGRAM REQUIREMENTS:
A minimum of 39 semester hours is required for the Master’s degree program. Students must maintain a 3.0 grade point average of “B” or better and no more than two grades below “B” will be accepted. Transfer credit from other recognized graduate schools is limited to six semester hours taken within the last five years with grades of “B” or better. All transfers must be approved by the candidate’s faculty advisor. Transfer credits must be posted to a student’s permanent record no later than one full term prior to graduation.

Required Courses -
Six core courses are required: LIS 5404; LIS 6271; LIS 6409 or LIS 6455; LIS 6511; LIS 6603; LIS 6735 or LIS 6725, plus a planned program of electives developed for each student as approved by the advisor.

Courses Outside the School Degree-seeking students are permitted to enroll in courses, usually limited to six semester hours, outside the School of Library and Information Science when, in the context of the development of a purposeful program, an interdisciplinary approach seems appropriate. Students must obtain the approval of their Faculty advisor.

Comprehensive Examination
Students must pass a written comprehensive examination. Students will take the comprehensive examination in their last semester. (Students who plan to graduate in August may take the comprehensive examination in the spring with the approval of their faculty advisor) and are advised to take the exam in their last or second to last semester while enrolled for a minimum of two credit hours during the semester in which they take the comprehensive examination. The School conducts comprehensive examinations only in the spring and fall semesters.

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

OTHER INFORMATION:
ALA-USF, ASSIST-USF, and SLA-USF These are student chapters of the American Library Association, American Society for Information Science & Technology and Special Libraries Association linked with the School of Library and Information Science and are open to all members of the University community interested in information science or librarianship. All provide programs and guest speakers of interest to the campus community, maintain several discussion lists, and publish a newsletter for their members. These organizations are the voice of students in the school, and members of the associations are included on committees within the School.
Linguistics Program
M.A.

DEGREE INFORMATION

Type of Degree Offered:
Master of Arts - M.A.

Concentrations Offered:
n/a

Also offered as:
n/a

Program Status: Active

CONTACT INFORMATION

Program Director: Wei Zhu
Other Contact:
Phone: 813-974-3805
Fax: 813-974-1718
Email: wzhu@chuma1.cas.usf.edu
Web Address: http://www.cas.usf.edu/

Mailing Address:
University of South Florida
World Language Education
Linguistics Program
4202 E. Fowler Avenue, CPR107
Tampa, FL 33620

PROGRAM INFORMATION

Linguistics is primarily an upper-level and graduate discipline with strong interdisciplinary concerns. The Linguistics Program offers two graduate tracks:

1. The Master of Arts in Linguistics (thesis), and
2. The Master of Arts in Applied Linguistics (Teaching English as a Second Language); (non-thesis).

For information on the M.A. in Applied Linguistics (TESL), refer to that Program listing.

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

Major Research Areas: n/a

ADMISSION INFORMATION

Program may have additional requirements; check before applying.

DEGREE PROGRAM REQUIREMENTS:

Thesis: Theoretical Linguistics
I. Core Requirements (18 hours) LIN 6081 (3) LIN 6117 (3) LIN 6322 (3) LIN 6520 (3) LIN 6850 (3) LIN 6715 (3)
II. 9 hours of approved electives.
A thesis and 6 hours of thesis credit.

A written and oral comprehensive examination is required for all M.A. students, as is submission of end-of-program portfolio and demonstration of proficiency in a language other than the student’s native tongue.

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

OTHER INFORMATION:
N/a
Linguistics: English as a Second Language Program
M.A.

DEGREE INFORMATION

Type of Degree Offered:
Master of Arts - M.A.

Concentrations Offered:
n/a

Also offered as:

Program Status:

CONTACT INFORMATION

Program Director: Wei Zhu
Other Contact:
Phone: 813-974-3155
Fax:
Email: http://www.cas.usf.edu/
Web Address: http://nosferatu.cas.usf.edu/languages/

Mailing Address:
University of South Florida
World Language Education
Linguistics: English as a Second Language Program
4202 E. Fowler Avenue, CPR107
Tampa, FL 33620

PROGRAM INFORMATION

Linguistics is primarily an upper-level and graduate discipline with strong interdisciplinary concerns. The Linguistics Program offers two graduate tracks:
1. The Master of Arts in Linguistics (thesis), and
2. The Master of Arts in Applied Linguistics (Teaching English as a Second Language); (non-thesis).

For information on the M.A. in Applied Linguistics (TESL), refer to that Program listing.

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

Major Research Areas:
n/a

ADMISSION INFORMATION

Program may have additional requirements; check before applying.

DEGREE PROGRAM REQUIREMENTS:

Non-Thesis: Applied Linguistics (TESL)
I. Core Requirements (27 hours)
LIN 5700 (3) LIN 6081 (3) LIN 6675 (3) LIN 6720 (3)
LIN 6748 (3)
TSL 5371 (3) TSL 5372 (3) TSL 5471 (3) TSL 5525 (3)
II. Six hours of approved electives
III. Additional requirements 6 hours of internship through enrollment in TSL 6945

A written and oral comprehensive examination is required for all M.A. students, as is submission of end-of-program portfolio and demonstration of proficiency in a language other than the student's native tongue.

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

OTHER INFORMATION:

N/a
Management Program
M.S.

DEGREE INFORMATION

Type of Degree Offered:
Master of Science - M.S.

Concentrations Offered:
Leadership and Organizational Effectiveness

Also offered as:
a specialization/concentration under Master of Business Administration - 2 application areas (Management and Advanced Management)

Program Status: Active

CONTACT INFORMATION

Program Director: Alan Balfour
Other Contact: Phone: 813-974-4155
Fax: 813-974-xxxx
Email: abalfour@coba.usf.edu
Web Address: http://www.coba.usf.edu/departments-management/progms/msm/master.html

Mailing Address:
University of South Florida
Information Systems and Decision Sciences
Management Program
4202 E. Fowler Avenue, BSN 3403
Tampa, FL 33620

PROGRAM INFORMATION

M.S. in Management: Leadership and Organizational Effectiveness (MSM)

For updated details, please consult our website at www.coba.usf.edu. This program develops the skill to lead 21st century organizations. It is targeted for experienced, successful working managers - people who are already good at their jobs and who can be promoted to higher leadership and executive positions within or outside their present organizations. It is not intended for recent graduates seeking entry-level managerial positions.

The future requires a very different type of leader than the past. The hierarchical model of scientific management is no longer widely accepted. The leaders of the future must be able to empower others and to facilitate teamwork in diverse groups, to recognize and adapt to the constraints and opportunities of a global economy, and to accommodate the ethical and societal needs of the environment within which the organization functions.

Both the profit and not-for-profit communities have recognized these changes and have demanded that business schools provide a modified and improved manager for the future - a manager who succeeds by facilitating the performance of others. This manager must be successful in leadership and organizational effectiveness. The MSM program is founded on two underlying beliefs: 1) that organizations are more than mere collections of individuals; that they are communities of shared concern; and 2) there is a moral imperative to help others when you can. These values lead to organizational behavior that is both effective and ethical. Intrapersonal, interpersonal, and organizational competencies are enhanced. The MSM faculty members blend scholarly activity and applied skills. It is the goal of the faculty to prepare graduates for successful careers as leaders in the real world.

This is an extremely progressive, dynamic, well-focused program. It is designed to help you reach career goals. The MSM is a 30 credit hour program offered in cohort format. The program is designed around the needs of working managers. Classes meet Monday and Wednesday evenings for twenty-one months. All students begin in August. A skills course in Decision Making and Problem Solving must be completed in the two weekends before fall semester enrollment. The curriculum proceeds from basic tools of analysis and skills development through understanding of interpersonal and organizational dynamics, to planned change and implementation. Sections are limited to thirty students. Course offerings and section availability are guaranteed to cohort members. All majors are eligible and welcome.

Accreditation:
Accredited by the Commission on Colleges of the Southern Association of College and Schools. AACSB - International (The Association to Advance Collegiate Schools of Business)

Major Research Areas:
Organizational Behavior, Organizational Analysis, Strategic Management

ADMISSION INFORMATION

Program may have additional requirements; check before applying.

DEGREE PROGRAM REQUIREMENTS:

Students take the same ten required courses. The cohort format is structured as follows:
each is 3 credit hours
MAN 6107 Leadership Perspective
MAN 6149 Leadership and Teams  
MAN 6204 Organizational Design/Structure  
MAN 6256 Politics and Control in Organization  
MAN 6289 Managing Organizational Change and Development  
MAN 6297 Negotiating Agreement and Resolving Conflict  
MAN 6305 Human Resources Management  
MAN 6607 Managing International Cultural Differences  
MAN 6726 Strategic Planning  
ACG 6028 Measuring Organizational Effectiveness  
Program Total: 30 credits

Additional Information Regarding Curriculum  
Leadership, teamwork, communication skills and organizational change are emphasized. Much of the curriculum is delivered through case studies, class discussion, exercises, group projects, video taped role-playing, simulations, and prominent guest speakers from the local business and non-profit community. Emphasis is placed on student participation and teamwork. All courses include writing, presentation, and critical thinking skills.

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

OTHER INFORMATION:  
N/a
Management Information Systems Program
M.S.

DEGREE INFORMATION

Type of Degree Offered:
Master of Science - M.S.

Concentrations Offered:
n/a

Also offered as:
track under Business Administration (Ph.D.) nad application area in Business Administration (Ph.D.)

Program Status:

CONTACT INFORMATION

Program Director: Alan R. Hevner
Other Contact: Mike Walters
Phone: 813-974-4155
Fax: 813-974-6749
Email: msmiss@coba.usf.edu
Web Address: http://www.coba.usf.edu/departments/isds/programs/master.html

Mailing Address:
University of South Florida
Information Systems and Decision Sciences
Management Information Systems Program
4202 E. Fowler Ave., BSN 3403
Tampa, FL  33620

PROGRAM INFORMATION

Management: Information Systems (M.S./M.I.S.)

The Master of Science in Management Information Systems (MS/MIS) meets the needs of the marketplace for expertise in both information technology and management. Highly qualified individuals with motivation for leadership in information systems fields are encouraged to apply for admission to this program. We expect that graduates of the program will be in great demand by firms in the information services sector of the economy, software houses, management consultants, and MIS departments in industry. An Industrial Advisory Board consisting of senior information systems executives and consultants works closely with the department to ensure that the program maintains high standards.

The MIS program is designed for individuals who are challenged by applications other than science or technology and who are willing to undertake a career that demands a broad rather than narrow range of skills. Students who already have considerable background either in academic computer science or in business coursework will make use of the built-in flexibility of the program, designing courses of study that will provide them with the best background for their careers. A faculty advisor will work closely with each student to design and monitor the most effective course sequence and thesis/practicum work.

Accreditation:
Accredited by the Commission on Colleges of the Southern Association of College and Schools. AACSB - International (The Association to Advance Collegiate Schools of Business)

Major Research Areas:
n/a

ADMISSION INFORMATION

Program may have additional requirements; check before applying.

DEGREE PROGRAM REQUIREMENTS:
The program requires 30-32 hours of coursework and may be taken either full-time or part-time. Full-time students with appropriate prerequisites may be able to complete the program in one full year (3 semesters) of study. Part-time students and full-time students who need prerequisites will typically need from 1 1/2 to 3 years to complete the degree.

During the first year of the program, a student will complete a formal Program of Study that will define a coherent sequence of courses to satisfy the student’s objectives. A student may have the option to complete a master’s thesis or a Practicum project, depending upon the availability and approval of a faculty sponsor. All students must successfully pass a comprehensive final examination (given in capstone course ISM 6155) for degree completion.

Prerequisites: Incoming students are expected to have the following as prerequisites:* One semester of calculus or equivalent mathematical background* Two semesters of a high-level programming language (e.g., C, C++, Java) or substantial programming experience* One semester of information systems analysis and design and one semester of database systems or equivalent* Educational background in business fundamentals must include courses in Accounting, Economics, and StatisticsRequired prerequisite courses may be taken concurrently with courses in the MS/MIS program. Prerequisite courses do
not count toward the 32 hours of course requirements in the MS/MIS program.

**Management Core**
The management core consists of three courses from the Management department. These courses allow students to grow their managerial capabilities for careers in the Information Systems field. Students will take the introductory course, MAN 6055 - Human Behavior in Organizations, plus two additional courses from the list below.

MAN 6289 Organizational Change and Development
MAN 6149 Leadership and Teams
MAN 6305 Human Resource Management
MAN 6107 Management Behavior Skills
MAN 6256 Politics and Control in Organizations
MAN 6294 Management of Conflict Resolution
MAN 6607 Managing International Cultural Differences
Other graduate management-oriented courses from areas such as public health or social sciences may be included as electives with the approval of the student’s advisor.

**Electives (12 credits)**
Four elective courses may be selected from additional Information Systems courses or other areas of specialization (e.g., Management, Decision Sciences, Computer Science, Logistics, other courses if approved).

**Thesis (6 hrs. min.):**
The master’s thesis option requires six credits of ISM 6971, which count as six of the 12 elective credits. The thesis must make a well-defined contribution to the research and development in an area of Information Systems.

**Practicum**
The practicum requires an investigation of a new information technology or application technique. The project typically occurs in the student’s place of employment and is jointly supervised by a faculty member and a manager in the company. Based upon the magnitude of the project, either three or six hours of credit in ISM 6905 would be taken. The practicum would count for three or six hours of electives.

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

**OTHER INFORMATION:**
N/a
Marine Science Program
M.S.

DEGREE INFORMATION

Type of Degree Offered:
Master of Science - M.S.

Concentrations Offered:
- Biological oceanography
- Chemical oceanography
- Geological oceanography
- Physical oceanography
- Interdisciplinary

Also offered as:
n/a

Program Status: Active

CONTACT INFORMATION

Program Director: Ted Van Vleet
Other Contact: Nadina Piehl
Phone: 727-553-1130
Fax: 727-553-1189
Email: advisor@marine.usf.edu
Web Address: http://www.marine.usf.edu/

Mailing Address:
University of South Florida
Marine Science
Marine Science Program
140 7th Ave. S., MSL 119
St. Petersburg, FL 33701

PROGRAM INFORMATION

The College of Marine Science (CMS) offers M.S. and Ph.D. degrees in Marine Science. The student may emphasize biological, chemical, geological, or physical oceanography, or develop an interdisciplinary program in oceanography through course work and thesis or dissertation research. More than 100 students are currently pursuing degrees under the direction of 28 full-time faculty. Study areas range from estuarine and near-shore systems to remote areas of the Pacific, Atlantic and Indian Oceans, as well as the Arctic and Antarctic. Additional information on faculty research and college facilities is available from the department upon request.

The college's location on St. Petersburg’s Bayboro Campus allows immediate access to Tampa Bay and the Gulf of Mexico. Bayboro Harbor is home-port to the R/V Bellows (71 ft.) and the R/V Suncoaster (110 ft.) operated by the Florida Institute of Oceanography (FIO) for the State University System. The college's principal building is shared with FIO and is adjacent to the Florida Marine Research Institute (FMRI), the research arm of the Florida Fish and Wildlife Conservation Commission (FWCC). A recently completed research building shared by CMS and FWCC houses a remote sensing, satellite data-acquisition center. With the Center for Coastal Geology and Regional Studies of the U.S. Geological Survey and the office of the Tampa Bay National Estuary Program also at Bayboro, our campus has one of the largest concentrations of marine scientists in the southeastern United States. Many of these scientists serve on advisory committees of CMS graduate students.

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

Major Research Areas:
n/a

ADMISSION INFORMATION

Program may have additional requirements; check before applying.

DEGREE PROGRAM REQUIREMENTS:
A committee, consisting of a major advisor and at least 2 other members of the graduate faculty, will be appointed to supervise and guide the program of each student. Students must complete a minimum of 32 credits under the following areas:

1. Core courses completed with a grade of “B” or better:
   - OCB 6050
   - OCC 6050
   - OCG 6051
   - OCP 6050

2. 6 credits of OCE 6971

Students must also complete a thesis and pass a final oral examination conducted by members of the student’s advisory committee.

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

OTHER INFORMATION:
N/a
Marine Science Program
Ph.D.

DEGREE INFORMATION

Type of Degree Offered:
Doctor of Philosophy - Ph.D.

Concentrations Offered:
Biological oceanography
Chemical oceanography
Geological oceanography
Physical oceanography
Interdisciplinary

Also offered as:
n/a

Program Status: Active

CONTACT INFORMATION

Program Director: Ted Van Vleet
Other Contact: Nadina Piehl
Phone: 727-553-1130
Fax: 727-553-1189
Email: advisor@marine.usf.edu
Web Address: http://www.marine.usf.edu/

Mailing Address:
University of South Florida
Marine Science
Marine Science Program
140 7th Ave. S., MSL 119
St. Petersburg, FL 33701

PROGRAM INFORMATION

The College of Marine Science (CMS) offers M.S. and Ph.D. degrees in Marine Science. The student may emphasize biological, chemical, geological, or physical oceanography, or develop an interdisciplinary program in oceanography through course work and thesis or dissertation research. More than 100 students are currently pursuing degrees under the direction of 28 full-time faculty. Study areas range from estuarine and near-shore systems to remote areas of the Pacific, Atlantic and Indian Oceans, as well as the Arctic and Antarctic. Additional information on faculty research and college facilities is available from the department upon request.

The college's location on St. Petersburg’s Bayboro Campus allows immediate access to Tampa Bay and the Gulf of Mexico. Bayboro Harbor is home-port to the R/V Bellows (71 ft.) and the R/V Suncoaster (110 ft.) operated by the Florida Institute of Oceanography (FIO) for the State University System. The college's principal building is shared with FIO and is adjacent to the Florida Marine Research Institute (FMRI), the research arm of the Florida Fish and Wildlife Conservation Commission (FWCC). A recently completed research building shared by CMS and FWCC houses a remote sensing, satellite data-acquisition center. With the Center for Coastal Geology and Regional Studies of the U.S. Geological Survey and the office of the Tampa Bay National Estuary Program also at Bayboro, our campus has one of the largest concentrations of marine scientists in the southeastern United States. Many of these scientists serve on advisory committees of CMS graduate students.

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

Major Research Areas:
n/a

ADMISSION INFORMATION

Program may have additional requirements; check before applying.

DEGREE PROGRAM REQUIREMENTS:
A committee, consisting of a major advisor and at least 4 other members of the graduate faculty, is appointed to supervise and guide the program of the candidate. One member shall be from a science department outside Marine Science. In addition to University requirements, students must complete:

1. A core program consisting of OCB 6050, OCC 6050, OCG 6051, and OCP 6050 with a grade of “B” or better,

2. A comprehensive qualifying exam consisting of a written and oral portion. A student must receive a passing vote on the qualifying exam from at least 4 committee members before admission to Ph.D. candidacy.

3. A minimum of 16 credits of OCE 7980. Following admission to candidacy, the student must enroll in OCE 7980 when engaged in research, data collection, or writing activities relevant to the dissertation. The student is required to accumulate a minimum of 6 credits during each previous 12 month period (previous 3 terms, e.g., Fall, Spring, Summer) until the degree is granted.


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

OTHER INFORMATION: N/a
Mass Communications Program
M.A.

DEGREE INFORMATION

Type of Degree Offered:
Master of Arts - M.A.

Concentrations Offered:
- Journalism Studies (offered only via USF-St. Petersburg)
- Mass Communication Studies
- Public Relations Studies

Also offered as:
Certificate in Converged Media

Program Status:

CONTACT INFORMATION

Program Director: Kenneth C. Killebrew
Other Contact:
Phone: 813-974-2591
Fax: 813-974-2592
Email: mcom@chuma.cas.usf.edu
Web Address: http://www.cas.usf.edu/mass_com/index.html

Mailing Address:
University of South Florida
School of Mass Communications
Mass Communications Program
4202 E. Fowler Avenue, CIS1040
Tampa, FL 33620

PROGRAM INFORMATION

The M.A. degree program in Mass Communications is designed for students who are seeking advanced studies in preparation for professional and academic careers in mass communications. The program offers one degree, the Master of Arts in Mass Communications.

The Journalism Studies Concentration (offered only through USF - St. Petersburg) emphasizes advanced practice and study in writing, reporting, ethics, and theoretical issues. The Mass Communication Studies Concentration emphasizes the theoretical principles and research methods of mass communications. The Public Relations Studies Concentration emphasizes public relations management and social science research.

Accreditation:
Accredited by the Commission on Colleges of the Southern Association of College and Schools and the Accrediting Council on Education in Journalism and Mass Communications (ACEJMC)

Major Research Areas:
n/a

ADMISSION INFORMATION

Program may have additional requirements; check before applying.

DEGREE PROGRAM REQUIREMENTS:

Journalism Studies – OFFERED ONLY THROUGH USF-ST. PETERSBURG
This program, housed on USF’s St. Petersburg campus, requires 36 hours of course work, including either a thesis for 6 credit hours or a professional project for 3 credit hours. As an option, students may designate an area of specialization and take up to 15 hours through other departments of the university. Students are also eligible to participate for academic credit in certain seminars offered by the Poynter Institute for Media Studies, adjacent to the St. Petersburg campus.

Mass Communication Studies
This program requires 36 hours of course work, including 6 hours of thesis. At least twenty-four hours are taken in the School of Mass Communications. The remaining 9-12 hours may be taken in graduate-level courses offered in other departments of the University.

Public Relations Studies
This program requires 36 hours of course work, including 6 hours of thesis, 9 hours of the mass communications core, 9 hours of the public relations core, 3 hours in organizational communication studies, and 9 hours of electives.

Students in both concentrations are required to take a comprehensive written examination after they have completed at least 21 hours of mass communications course work, including the required courses for each Concentration of study.

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

OTHER INFORMATION: Certificate in Converged Media - This program is designed as a 15-hour concentration in advanced media presentation and includes writing, web design, and placement of multi-media stores in a web-based environment. Students gain expertise in video and audio streaming and appropriate platform selection for created stories. For more specific information, go to http://www.outreach.usf.edu/gradcerts/
Mass Communications at St. Petersburg Program
M.A.

DEGREE INFORMATION

Type of Degree Offered:
Master of Arts - M.A.

Concentrations Offered:
- Journalism Studies (offered only via USF-St. Petersburg)
- Mass Communication Studies (offered in Tampa)
- Public Relations Studies (offered in Tampa)

Also offered as:
Certificate in Converged Media

Program Status: Active

CONTACT INFORMATION

Program Director: Kenneth C. Killebrew
Other Contact: Robert Dardenne
Phone: 727-553-4156
Fax: 727-5534526
Email: cas@stpt.usf.edu
Web Address: http://www.cas.usf.edu/mass_com/index.html

Mailing Address:
University of South Florida
School of Mass Communications
Mass Communications at St. Petersburg Program
140 Seventh Avenue South,
St. Petersburg, FL 33701

PROGRAM INFORMATION

The M.A. degree program in Mass Communications is designed for students who are seeking advanced studies in preparation for professional and academic careers in mass communications. The program offers one degree, the Master of Arts in Mass Communications.

The Journalism Studies Concentration (offered only through USF-St. Petersburg) emphasizes advanced practice and study in writing, reporting, ethics, and theoretical issues. The Mass Communication Studies Concentration emphasizes the theoretical principles and research methods of mass communications. The Public Relations Studies Concentration emphasizes public relations management and social science research.

Accreditation:
Accredited by the Commission on Colleges of the Southern Association of College and Schools and the Accrediting Council on Education in Journalism and Mass Communications (ACEJMC)

Major Research Areas:
n/a

ADMISSION INFORMATION

Program may have additional requirements; check before applying.

DEGREE PROGRAM REQUIREMENTS:

Journalism Studies
OFFERED ONLY THROUGH USF-ST. PETERSBURG
This program, housed on USF’s St. Petersburg campus, requires 36 hours of course work, including either a thesis for 6 credit hours or a professional project for 3 credit hours. As an option, students may designate an area of specialization and take up to 15 hours through other departments of the university. Students are also eligible to participate for academic credit in certain seminars offered by the Poynter Institute for Media Studies, adjacent to the St. Petersburg campus.

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

OTHER INFORMATION: n/a
Mathematics Program
M.A.

DEGREE INFORMATION

Type of Degree Offered:
Master of Arts - M.A.

Concentrations Offered:
Pure and Applied (M.A., Ph.D.)
Statistics (Ph.D.)

Also offered as:
n/a

Program Status: Active

CONTACT INFORMATION

Program Director: Masahiko Saito
saito@math.usf.edu
Other Contact: n/a
Phone: 813-974-2643
Fax: 813-974-2700
Email: ga@math.usf.edu
Web Address: http://www.math.usf.edu/

Mailing Address:
University of South Florida
Mathematics
Mathematics Program
4202 E. Fowler Avenue, PHY114
Tampa, FL 33620

PROGRAM INFORMATION

The Department of Mathematics at the University of South Florida, Tampa Campus, is composed of approximately thirty faculty who do research in a variety of fields, and teach courses ranging from the freshman to the doctoral level.

The Department serves as the editorial base for the international journals: *Abstract and Applied Analysis* and *Journal of Theoretical Probability*. The Center for Mathematical Services within the department provides lectures, special programs for secondary students, and in service training programs in mathematics.

Some graduate courses are organized into Core and Elective Sequences as follows:

Core Sequences:
- Algebra: MAS 5107, 5311, 5312
- Analysis: MAA 5306, 5307, 5616
- Mathematical Statistics: STA 5326, 6326
- Topology: MTG 5316, 5317

Elective Sequences:
- Applied Mathematics: three courses, one from each group listed below.
  (Group A) MAP 5407, 5345
  (Group B) MAA 5405, MAT 5932 (MAD 4401)
  (Group C) MAP 6205, MAT 6932 (Dynamical Systems II)
- Combinatorics: MAD 6206, 6207
- Complex Analysis: MAA 6406, 6407
- Statistical Methods: STA 5166, 6167
- Dynamical Systems: MAT 5932 (Dynamical Systems I), 6932 (II)
- Foundations: MHF 5306, 6307
- Linear Models and Multivariate Analysis: STA 6208, 6356
- Nonlinear Analysis: MAP 5316, 5317

Ordinary Differential Equations: MAP 6336, MAT 5932 (Dynamical Systems I)
Partial Differential Equations: MAP 5345, 6356
Probability: STA 5446, 6447
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. A qualifying examination based on a Core Sequence is called a Core Qualifying Examination. The syllabus for each examination is available from the Department. Core Qualifying Examinations are offered in January, May and September. A student who passes a Core Qualifying Examination at Ph.D. level will be considered to have completed the corresponding Core Sequence. Credit hours of MAT 6908 Independent Study, MAT 6939 Graduate Seminar, and MAT 6911 / 7912 Directed Research, earned before passing two Core Qualifying Examinations at Ph.D. level, do not count towards M.A. or Ph.D. degree. These courses, MAT 6908, 6911, 6939 and 7912, however, can be taken by a student before passing two Core Qualifying Examinations at Ph.D. level, with an approval from the Graduate Program Director, and also from the Seminar Organizer for MAT 6939. The course work for more than one credit hour for MAT 6939 needs an approval from the Graduate Committee.

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

Major Research Areas:
Mathematics, Approximation Theory, Combinatorics, Computational Statistics, Control Theory, DNA computing, Dynamical Systems, Graph Theory, Knot Theory, Nonlinear Analysis, Number Theory, Special Functions, Theoretical Computer Science,

ADMISSION INFORMATION
Program may have additional requirements; check before applying.

DEGREE PROGRAM REQUIREMENTS:
In addition to the University and College requirements, the students must fulfill the following requirements:

1. Credit Hours: A candidate must complete at least 30 credit hours in Mathematics. Specifically,
   a. The Mathematics graduate courses of 5000 level or higher, offered regularly for mathematics majors from the Mathematics department, are counted towards the 30-hour requirement.
   b. Up to 6 hours of 4000 level or higher courses, taken from our department or other departments at USF, may be counted towards the 30-hour requirement with approval by the Graduate Program Director and the Department Chairperson.

2. Completion of Sequences: A Candidate must complete two Core or Elective Sequences, at least one of which must be a Core Sequence, and receive at least a 3.0 average in each sequence.

3. Thesis or Examination Requirement: Each candidate for the M.A. degree must either be examined on a thesis or pass one of the written Core Qualifying Examinations.

A student who elects the thesis option must register for a minimum of 6 credit hours in MAT 6971, only 6 hours of which may be applied toward the 30-hour degree requirement. The comprehensive examination takes the form of an oral thesis defense, in which the candidate must demonstrate knowledge of the general subject area of the thesis.

A student who elects the exam option must pass one of the Core Qualifying Examinations at M.A. level. A student may repeat each examination once.

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

OTHER INFORMATION:
N/a
Mathematics Program
Ph.D.

DEGREE INFORMATION

Type of Degree Offered: 
Doctor of Philosophy - Ph.D.

Concentrations Offered: 
Pure and Applied (M.A., Ph.D.)
Statistics (Ph.D.)

Also offered as: 
n/a

Program Status: 
Active

CONTACT INFORMATION

Program Director: 
Masahiko Saito
saito@math.usf.edu

Other Contact: 
n/a

Phone: 
813-974-2643

Fax: 
813-974-2700

Email: 
ga@math.usf.edu

Web Address: 
http://www.math.usf.edu/

Mailing Address: 
University of South Florida
Mathematics
Mathematics Program
4202 E. Fowler Avenue, PHY114
Tampa, FL 33620

PROGRAM INFORMATION

The Department of Mathematics at the University of South Florida, Tampa Campus, is composed of approximately thirty faculty who do research in a variety of fields, and teach courses ranging from the freshman to the doctoral level.

The Department serves as the editorial base for the international journals: Abstract and Applied Analysis and Journal of Theoretical Probability. The Center for Mathematical Services within the department provides lectures, special programs for secondary students, and in service training programs in mathematics.

Some graduate courses are organized into Core and Elective Sequences as follows:

Core Sequences:
   Algebra: MAS 5107, 5311, 5312
   Analysis: MAA 5306, 5307, 5616
   Mathematical Statistics: STA 5326, 6326
   Topology: MTG 5316, 5317

Elective Sequences:
   Applied Mathematics: three courses, one from each group listed below.
   (Group A) MAP 5407, 5345
   (Group B) MAA 5405, MAT 5932 (MAD 4401)
   (Group C) MAP 6205, MAT 6932 (Dynamical Systems II)
   Combinatorics: MAD 6206, 6207
   Complex Analysis: MAA 6406, 6407
   Statistical Methods: STA 5166, 6167
   Dynamical Systems: MAT 5932 (Dynamical Systems I),
                     6932 (II)
   Foundations: MHF 5306, 6307
   Linear Models and Multivariate Analysis: STA 6208, 6356
   Nonlinear Analysis: MAP 5316, 5317

Ordinary Differential Equations: MAP 6336, MAT 5932
(Dynamical Systems I)
Partial Differential Equations: MAP 5345, 6356
Probability: STA 5446, 6447
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. A qualifying examination based on a Core Sequence is called a Core Qualifying Examination. The syllabus for each examination is available from the Department. Core Qualifying Examinations are offered in January, May and September. A student who passes a Core Qualifying Examination at Ph.D. level will be considered to have completed the corresponding Core Sequence. Credit hours of MAT 6908 Independent Study, MAT 6939 Graduate Seminar, and MAT 6911 / 7912 Directed Research, earned before passing two Core Qualifying Examinations at Ph.D. level, do not count towards M.A. or Ph.D. degree. These courses, MAT 6908, 6911, 6939 and 7912, however, can be taken by a student before passing two Core Qualifying Examinations at Ph.D. level, with an approval from the Graduate Program Director, and also from the Seminar Organizer for MAT 6939. The course work for more than one credit hour for MAT 6939 needs an approval from the Graduate Committee.

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

Major Research Areas:
Mathematics, Approximation Theory, Combinatorics, Computational Statistics, Control Theory, DNA computing, Dynamical Systems, Graph Theory, Knot Theory, Nonlinear Analysis, Number Theory, Special Functions, Theoretical Computer Science.

ADMISSION INFORMATION
Program may have additional requirements; check before applying.

DEGREE PROGRAM REQUIREMENTS:
In addition to the University and College requirements, the students must fulfill the following requirements.
1. **Core Qualifying Examinations:** The student is required to pass two of the Core Qualifying Examinations at Ph.D. Level. A student is expected to complete both within 13 months after entering the Ph.D. program 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 Program Director at least one semester before the examination is to take place. A student is expected to complete all three examinations within 25 months after entering the Ph.D. program unless an extension is granted by the Mathematics Graduate Committee. A student may repeat each examination once. The student will be admitted to candidacy after completion of the above two requirements.

3. **Completion of Four Sequences:** The student must complete four sequences from among Core and Elective Sequences with at least a 3.0 average in each sequence.

4. **Progress Evaluation:** Each Spring semester after admission to candidacy, the candidate shall give an oral presentation to the Doctoral Committee of the problem(s) under investigation. The presentation may also include a discussion of partial results. The Dissertation Advisor shall submit to the Department Chairperson a written report of the presentation.

5. **Dissertation:** Students admitted to candidacy are required to take at least 16 hours in MAT 7980 Doctoral Dissertation, with a 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.

6. **External Examiner Requirement and the Final Oral Examination:** The Final Oral Examination is also called the Dissertation Defense. The Department Chairperson will select an external examiner from a list provided by the Dissertation Advisor; the examiner should be both expert in the field and familiar with the standards expected for a Ph.D. A copy of the dissertation must be sent to the external examiner for review at least four weeks in advance of the Final Oral Examination. The reviewer’s report shall be provided to the Doctoral Committee before the Final Oral Examination. Alternatively, referees’ reports on papers based on the dissertation and accepted for publication may be substituted in lieu of the external examiner requirement.

COURSES:
See [http://www.ugs.usf.edu/sab/sabs.cfm](http://www.ugs.usf.edu/sab/sabs.cfm)

OTHER INFORMATION:
N/a
Mathematics Education Program
M.A.

DEGREE INFORMATION

Type of Degree Offered:
Master of Arts - M.A.

Concentrations Offered:
n/a

Also offered as:
a specialization/concentration under Curriculum and Instruction (M.Ed., Ph.D.) Please see college section on Curriculum and Instruction.

Program Status:  Active

CONTACT INFORMATION

Program Director:  Gladis Kersaint
Other Contact:  
Phone:  813-974-3533
Fax:  813-974-3837
Email:  
Web Address:  http://www.coedu.usf.edu/mathed/default.htm

Mailing Address:
University of South Florida
Secondary Education
Mathematics Education Program
4202 E. Fowler Avenue, EDU162
Tampa, FL 33620

PROGRAM INFORMATION

This degree is designed primarily for secondary school teachers desiring to improve their skills in the teaching of mathematics to secondary students.

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

Major Research Areas:
n/a

ADMISSION INFORMATION

Program may have additional requirements; check before applying.

DEGREE PROGRAM REQUIREMENTS:

Plan I
Process Core 9 hours
EDF 6432, EDF 6481, and EDF 6211 or EDF 6215
Current Trends in Secondary School Mathematics (MAE 6136) 3 hours
Concentration (a.k.a. specialization) 18 hours minimum
To be taken in mathematics and approved by the student’s advisor.
Electives 3 hours
Coursework in mathematics education
Comprehensive Examination
The comprehensive examination will consist of a written and/or oral examination in the major area.

The Plan II option is available for individuals seeking initial teacher certification, and Plan III option for individuals who do not desire certification.

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

OTHER INFORMATION:

N/a
# Mathematics Education Program

## M.A.T.

### DEGREE INFORMATION

**Type of Degree Offered:** Master of Arts in Teaching - M.A.T.

**Concentrations Offered:** n/a

**Also offered as:**
A specialization/concentration under Curriculum and Instruction (M.Ed., Ph.D.) Please see college section on Curriculum and Instruction.

**Program Status:** Active

### CONTACT INFORMATION

**Program Director:** Gladis Kersaint

**Phone:** 813-974-3533

**Fax:** 813-974-3837

**Email:**

**Web Address:** [http://www.coedu.usf.edu/mathed/default.htm](http://www.coedu.usf.edu/mathed/default.htm)

**Mailing Address:**
University of South Florida
Secondary Education
Mathematics Education Program
4202 E. Fowler Avenue, EDU162
Tampa, FL 33620

### PROGRAM INFORMATION

The M.A.T. in Mathematics Education is currently under review at the State Department of Education. Please check the Mathematics Education website for an update.

For information refer to the College of Education listing.

Please be advised that program and/or course requirements are subject to change, per state legislative mandates, Florida Department of Education program approval standards, and accreditation criteria.

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

**Major Research Areas:** n/a

### COURSES:

See [http://www.ugs.usf.edu/sab/sabs.cfm](http://www.ugs.usf.edu/sab/sabs.cfm)

### OTHER INFORMATION:

N/a

### ADMISSION INFORMATION

Program may have additional requirements; check before applying.

### DEGREE PROGRAM REQUIREMENTS:

n/a
# Mechanical Engineering Program
## M.E.

### DEGREE INFORMATION

**Type of Degree Offered:**
Master of Engineering - M.E.

**Concentrations Offered:**
Manufacturing (Ph.D.)

**Also offered as:**
n/a

**Program Status:**
Active

### CONTACT INFORMATION

**Program Director:** Jose Porteiro  
**Other Contact:** n/a  
**Phone:** 813-974-2280  
**Fax:** 813-974-3539  
**Email:** n/a  
**Web Address:** [http://me.eng.usf.edu/](http://me.eng.usf.edu/)

**Mailing Address:**
University of South Florida  
Mechanical Engineering  
Mechanical Engineering Program  
4202 E. Fowler Avenue, ENB118  
Tampa, FL  33620

### PROGRAM INFORMATION

The Department offers graduate programs leading to the M.S. and Ph.D. in Mechanical Engineering. Coursework and research opportunities are available in the areas of fluid mechanics and aerodynamics, thermodynamics, combustion, heat transfer, robotics (with an emphasis on automation, miniaturization and instrumentation), intelligent machines, mechatronics, mechanical controls, vibrations, tribology, computer aided engineering, computational methods in structural mechanics, computational fluid dynamics, energy conservation, system simulation, and analysis of composite materials. Departmental laboratory facilities include mainframe, mini and personal computers, a wide assortment of basic instrumentation with A/D converters, a subsonic wind tunnel with laser-doppler anemometer, robotics sensors (acoustic and optical), engines, dynamometers, fluid flow/heat transfer equipment, vibrations instrumentation, and remote sensing and control instrumentation for data acquisition and energy management systems. The department also maintains a CAD Laboratory with AutoCAD and Algor and a CFD Laboratory with Phoenics.

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

**Major Research Areas:**
n/a

**ADMISSION INFORMATION**
Program may have additional requirements; check before applying. Check web: [http://me.eng.usf.edu](http://me.eng.usf.edu)

**DEGREE PROGRAM REQUIREMENTS:**
The Department of Mechanical Engineering has available, on request, the Mechanical Engineering Graduate Program Handbook, which delineates the Department’s entrance requirements, programs of study, supervisory committee formation, and program completion requirements. The M.M.E is a non-thesis program and the M.S.M.E. is a thesis or design project program.

**COURSES:**
See [http://www.ugs.usf.edu/sab/sabs.cfm](http://www.ugs.usf.edu/sab/sabs.cfm)

**OTHER INFORMATION:**
N/a
Mechanical Engineering Program
M.M.E.

DEGREE INFORMATION

Type of Degree Offered:
Master of Mechanical Engineering - M.M.E.

Concentrations Offered:
Manufacturing (Ph.D.)

Also offered as:
n/a

Program Status:

CONTACT INFORMATION

Program Director: Jose Porteiro
Other Contact: n/a
Phone: 813-974-2280
Fax: 813-974-3539
Email: n/a
Web Address: http://me.eng.usf.edu/

Mailing Address:
University of South Florida
Mechanical Engineering
Mechanical Engineering Program
4202 E. Fowler Avenue, ENB118
Tampa, FL 33620

PROGRAM INFORMATION

The Department offers graduate programs leading to the M.S. and Ph.D. in Mechanical Engineering. Coursework and research opportunities are available in the areas of fluid mechanics and aerodynamics, thermodynamics, combustion, heat transfer, robotics (with an emphasis on automation, miniaturization and instrumentation), intelligent machines, mechatronics, mechanical controls, vibrations, tribology, computer aided engineering, computational methods in structural mechanics, computational fluid dynamics, energy conservation, system simulation, and analysis of composite materials. Departmental laboratory facilities include mainframe, mini and personal computers, a wide assortment of basic instrumentation with A/D converters, a subsonic wind tunnel with laser-doppler anemometer, robotics sensors (acoustic and optical), engines, dynamometers, fluid flow/heat transfer equipment, vibrations instrumentation, and remote sensing and control instrumentation for data acquisition and energy management systems. The department also maintains a CAD Laboratory with AutoCAD and Algor and a CFD Laboratory with Phoenics.

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

Major Research Areas:
n/a

ADMISSION INFORMATION

Program may have additional requirements; check before applying. Check web: http://me.eng.usf.edu

DEGREE PROGRAM REQUIREMENTS:
The Department of Mechanical Engineering has available, on request, the Mechanical Engineering Graduate Program Handbook, which delineates the Department’s entrance requirements, programs of study, supervisory committee formation, and program completion requirements. The M.M.E is a non-thesis program and the M.S.M.E is a thesis or design project program.

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

OTHER INFORMATION:
N/a
Mechanical Engineering Program
M.S.E.S.

DEGREE INFORMATION
Type of Degree Offered:
Master of Science in Engineering Science - M.S.E.S.

Concentrations Offered:
Manufacturing (Ph.D.)

Also offered as:
n/a

Program Status:

CONTACT INFORMATION
Program Director:
Jose Porteiro
Other Contact:
n/a
Phone:
813-974-2280
Fax:
813-974-3539
Email:
n/a
Web Address:
http://me.eng.usf.edu/

Mailing Address:
University of South Florida
Mechanical Engineering
Mechanical Engineering Program
4202 E. Fowler Avenue, ENB118
Tampa, FL 33620

PROGRAM INFORMATION
The Department offers graduate programs leading to the M.S. and Ph.D. in Mechanical Engineering. Coursework and research opportunities are available in the areas of fluid mechanics and aerodynamics, thermodynamics, combustion, heat transfer, robotics (with an emphasis on automation, miniaturization and instrumentation), intelligent machines, mechatronics, mechanical controls, vibrations, tribology, computer aided engineering, computational methods in structural mechanics, computational fluid dynamics, energy conservation, system simulation, and analysis of composite materials. Departmental laboratory facilities include mainframe, mini and personal computers, a wide assortment of basic instrumentation with A/D converters, a subsonic wind tunnel with laser-doppler anemometer, robotics sensors (acoustic and optical), engines, dynamometers, fluid flow/heat transfer equipment, vibrations instrumentation, and remote sensing and control instrumentation for data acquisition and energy management systems. The department also maintains a CAD Laboratory with AutoCAD and Algor and a CFD Laboratory with Phoenics.

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

Major Research Areas:
n/a

ADMISSION INFORMATION
Program may have additional requirements; check before applying. Check web: http://me.eng.usf.edu

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

OTHER INFORMATION:
N/a
Mechanical Engineering Program
M.S.M.E.

DEGREE INFORMATION

Type of Degree Offered:
Master of Science in Mechanical Engineering - M.S.M.E.

Concentrations Offered:
Manufacturing (Ph.D.)

Also offered as:
N/A

Program Status:

CONTACT INFORMATION

Program Director: Jose Porteiro
Other Contact: N/A
Phone: 813-974-2280
Fax: 813-974-3539
Email: N/A
Web Address: http://me.eng.usf.edu/

Mailing Address:
University of South Florida
Mechanical Engineering
Mechanical Engineering Program
4202 E. Fowler Avenue, ENB118
Tampa, FL 33620

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Accreditation:
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Major Research Areas:
N/A

ADMISSION INFORMATION

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DEGREE PROGRAM REQUIREMENTS:
The Department of Mechanical Engineering has available, on request, the Mechanical Engineering Graduate Program Handbook, which delineates the Department’s entrance requirements, programs of study, supervisory committee formation, and program completion requirements. The M.M.E. is a non-thesis program and the M.S.M.E. is a thesis or design project program.

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

OTHER INFORMATION:
N/A
## Mechanical Engineering Program

### Ph.D.

#### DEGREE INFORMATION

**Type of Degree Offered:**
Doctor of Philosophy - Ph.D.

**Concentrations Offered:**
Manufacturing (Ph.D.)

**Also offered as:**
n/a

**Program Status:**

#### CONTACT INFORMATION

**Program Director:** Jose Porteiro

**Other Contact:** n/a

**Phone:** 813-974-2280

**Fax:** 813-974-3539

**Email:** n/a

**Web Address:** [http://me.eng.usf.edu/](http://me.eng.usf.edu/)

**Mailing Address:**
University of South Florida
Mechanical Engineering
Mechanical Engineering Program
4202 E. Fowler Avenue, ENB118
Tampa, FL 33620

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### PROGRAM INFORMATION

The Department offers graduate programs leading to the M.S. and Ph.D. in Mechanical Engineering. Coursework and research opportunities are available in the areas of fluid mechanics and aerodynamics, thermodynamics, combustion, heat transfer, robotics (with an emphasis on automation, miniaturization and instrumentation), intelligent machines, mechatronics, mechanical controls, vibrations, tribology, computer aided engineering, computational methods in structural mechanics, computational fluid dynamics, energy conservation, system simulation, and analysis of composite materials. Departmental laboratory facilities include mainframe, mini and personal computers, a wide assortment of basic instrumentation with A/D converters, a subsonic wind tunnel with laser-doppler anemometer, robotics sensors (acoustic and optical), engines, dynamometers, fluid flow/heat transfer equipment, vibrations instrumentation, and remote sensing and control instrumentation for data acquisition and energy management systems. The department also maintains a CAD Laboratory with AutoCAD and Algor and a CFD Laboratory with Phoenics.

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

**Major Research Areas:**
n/a

**ADMISSION INFORMATION**
Program may have additional requirements; check before applying. Check web: [http://me.eng.usf.edu](http://me.eng.usf.edu)

**DEGREE PROGRAM REQUIREMENTS:**
The Department of Mechanical Engineering has available, on request, the Mechanical Engineering Graduate Program Handbook, which delineates the Department’s entrance requirements, programs of study, supervisory committee formation, and program completion requirements.

**COURSES:**
See [http://www.ugs.usf.edu/sab/sabs.cfm](http://www.ugs.usf.edu/sab/sabs.cfm)

**OTHER INFORMATION:**
N/a
Medical Science Program
M.S.M.S.

DEGREE INFORMATION

Type of Degree Offered:
Master of Science in Medical Science - M.S.M.S.

Concentrations Offered:
Anatomy (M.SM.S. and Ph.D.)
Biochemistry and Molecular Biology (MSMS and Ph.D.)
http://biochem.usf.edu
Microbiology and Immunology (MSMS and Ph.D.)
http://hsc.usf.edu/medicine/medmicro/
Multidisciplinary Biomedical Sciences (Ph.D.)
http://www.med.usf.edu/PHD/
Neuroscience (Ph.D.)
http://www.med.usf.edu/PHD/NEURO/neuro.html
Pathology and Laboratory Medicine (Ph.D.)
Pharmacology and Therapeutics (MSMS and Ph.D.)
Physiology and Biophysics (Ph.D.)
http://www.hsc.usf.edu/medicine/physiology/

Also offered as: n/a

Program Status: Active

CONTACT INFORMATION

Program Director: Susan Chapman
Other Contact: 
Phone: 813-974-4181
Fax: 813-974-4317
Email: schapman@hsc.usf.edu
Web Address: http://hsc.usf.edu/medicine/phd/

Mailing Address:
University of South Florida
Medical Sciences
Medical Science Program
4202 E. Fowler Ave, MDC40
Tampa, FL 33612

PROGRAM INFORMATION

The program is designed to provide students with a broad knowledge in the basic medical sciences, while preparing them for careers as effective and knowledgeable teachers, as well as productive and versatile researchers. To meet these objectives, students take courses in the medical sciences and related areas, participate in seminars, and receive individual research training. Departmental advisory committees counsel the entering students in planning their first year curriculum. In addition to course work and participation in seminars, first year students are expected to become familiar with ongoing research in their chosen department; when possible, they are encouraged to work on a part-time basis as research assistants in their department. Once the student selects a major professor, a formal dissertation committee is appointed. The dissertation committee assists the student in planning the research and course of study, evaluates the student’s progress, supervises the comprehensive examination, and conducts the final dissertation defense.

By the end of the second year, a student has usually completed sufficient course work and met the other research requirements to take the comprehensive qualifying examination. Successful completion of this examination leads to formal admission to candidacy for the Ph.D. degree. The final phase of the program emphasizes research and independent study and leads to a written dissertation. The Ph.D. degree is awarded upon successful completion and oral defense of the dissertation. Departments within the College of Medicine may have additional requirements that pertain to their respective training program. Contact the department for information.

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

Major Research Areas:
See Concentration websites

ADMISSION INFORMATION

Program may have additional requirements; check before applying.

DEGREE PROGRAM REQUIREMENTS:
For requirements for either the M.S.M.S. or Ph.D., please contact the College.

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

OTHER INFORMATION:
N/a
Medical Science Program
Ph.D.

DEGREE INFORMATION

Type of Degree Offered:
Doctor of Philosophy - Ph.D.

Concentrations Offered:
Anatomy (M.S.M.S. and Ph.D.)
Biochemistry and Molecular Biology (MSMS and Ph.D.)
http://biochem.usf.edu
Microbiology and Immunology (MSMS and Ph.D.)
http://hsc.usf.edu/medicine/medmicro/
Multidisciplinary Biomedical Sciences (Ph.D.)
http://www.med.usf.edu/PHD/
Neuroscience (Ph.D.)
http://www.med.usf.edu/PHD/NEURO/neuro.html
Pathology and Laboratory Medicine (Ph.D.)
Pharmacology and Therapeutics (MSMS and Ph.D.)

Also offered as:
n/a

Program Status: Active

CONTACT INFORMATION

Program Director: Susan Chapman
Other Contact: 
Phone: 813-974-4181
Fax: 813-974-4317
Email: schapman@hsc.usf.edu
Web Address: http://hsc.usf.edu/medicine/phd/
Mailing Address:
University of South Florida
Medical Sciences
Medical Science Program
4202 E. Fowler Ave, MDC40
Tampa, FL 33620

PROGRAM INFORMATION

The program is designed to provide students with a broad knowledge in the basic medical sciences, while preparing them for careers as effective and knowledgeable teachers, as well as productive and versatile researchers. To meet these objectives, students take courses in the medical sciences and related areas, participate in seminars, and receive individual research training. Departmental advisory committees counsel the entering students in planning their first year curriculum. In addition to course work and participation in seminars, first year students are expected to become familiar with ongoing research in their chosen department; when possible, they are encouraged to work on a part-time basis as research assistants in their department. Once the student selects a major professor, a formal dissertation committee is appointed. The dissertation committee assists the student in planning the research and course of study, evaluates the student’s progress, supervises the comprehensive examination, and conducts the final dissertation defense.

By the end of the second year, a student has usually completed sufficient course work and met the other research requirements to take the comprehensive qualifying examination. Successful completion of this examination leads to formal admission to candidacy for the Ph.D. degree. The final phase of the program emphasizes research and independent study and leads to a written dissertation. The Ph.D. degree is awarded upon successful completion and oral defense of the dissertation. Departments within the College of Medicine may have additional requirements that pertain to their respective training program. Contact the department for information.

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

Major Research Areas: See Concentration websites

ADMISSION INFORMATION

Program may have additional requirements; check before applying.

DEGREE PROGRAM REQUIREMENTS:
For requirements for either the M.S.M.S. or Ph.D., please contact the College.

COURSES: See http://www.ugs.usf.edu/sab/sabs.cfm
Microbiology Program
M.S.

DEGREE INFORMATION

Type of Degree Offered:
Master of Science - M.S.

Concentrations Offered:
Conservation Biology
Coastal Marine Biology
Molecular-Cellular Biology

Also offered as:
n/a

Program Status:

CONTACT INFORMATION

Program Director: Henry R. Mushinsky
Other Contact: n/a
Phone: 813-974-3250
Fax: 813-974-3263
Email: csmith2@chuma1.cas.usf.edu
Web Address: http://www.cas.usf.edu/biology/

Mailing Address:
University of South Florida
Biology
Microbiology Program
4202 E. Fowler Ave, SCA110
Tampa, FL 33620

PROGRAM INFORMATION

The Department of Biology was the first to offer the Ph.D. degree at the University of South Florida. The department is located in two modern, well-equipped buildings. Most research in cell and molecular, and microbiology is done by faculty housed in the Bio-Science facility, and most of the research in organismal biology and ecology is conducted by faculty housed in the Science Center. In addition, the department has common research facilities in two nearby buildings.

One theme that runs throughout the department is that of cooperation. Within the Department, faculty and graduate students often work together on broad ranging research projects that bring together many of the traditionally separate areas of biology. Many of the Department’s cell and molecular biologists and ecologists are involved in cooperative research with their colleagues in Public Health, Nursing, and Medicine. Likewise, many of the Department’s organismal biologists and ecologists are involved in cooperative research with colleagues in the Departments of Geology, Psychology, Geography, Marine Science, and the Environmental Science and Policy program. Often biology graduate students have faculty members from these other areas of USF as members of their graduate committees.

Because of the many undergraduate courses that require hands-on experimental laboratories, the Department supports many graduate students as Teaching Assistants. The Department values high quality teaching at all levels of instruction. Research Assistant positions also are available to support research with specific faculty members.

The departmental graduate director, or an assigned mentor, serves as the student’s advisor until the student makes arrangements for a faculty member to serve as major professor. The selection of a major professor includes acceptance of the student by the faculty member. Applicants are strongly urged to contact faculty conducting research in the student’s area of interest.

For all master’s students, the major professor and at least two additional faculty constitute the student’s supervisory committee, the major professor and at least one of the committee members must be from the Biology Department. For all Ph.D. students the major professor and at least three additional faculty constitute the student’s supervisory committee. The major professor and three members must be from the Department of Biology. Supervisory committees must be established within two semesters after matriculation. Failure to do so will be cause for dismissal.

The Departmental Chairman, the College Dean and the Dean of the Office of Graduate Studies must approve the Supervisory Committee. Once a major professor has been assigned and/or a student occupies or utilizes significant space or facilities for research or analogous scholarly activity directly pertinent to the generation of a thesis or dissertation, the student shall enroll for 2 hours of research credit each semester (other than summer semester), until eligible to enroll in thesis or dissertation credits. No student shall be required to enroll for more than 9 graduate hours per semester.

A student must be registered for an appropriate load (in no case fewer than 2 graduate hours) in the college for the semester in which all degree requirements are satisfactorily completed. A student who receives three grades below “B” in structured courses required by the advisory committee will be dropped from the program. Registration in courses entitled Directed Research, Thesis, or Dissertation must be with the approval of the major professor and must be commensurate with each student’s research plan. Students may not register in Thesis: Master’s or Dissertation: Doctoral until a Supervisory Committee has been formed.
A student who enrolls in courses entitled Thesis: Master’s or Dissertation: Doctoral but does not submit a thesis or dissertation will not be certified for graduation.

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

Major Research Areas:
N/a

ADMISSION INFORMATION
Program may have additional requirements; check before applying.

DEGREE PROGRAM REQUIREMENTS:
Contact the department for the program requirements for the M.S. in MICROBIOLOGY.

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

OTHER INFORMATION:
N/a
Music Program
M.M.

DEGREE INFORMATION

Type of Degree Offered:
Master of Music - M.M.

Concentrations Offered:
Composition
Conducting (Choral Conducting, Instrumental Conducting)
Jazz Composition
Jazz Performance
Music Education (Ph.D. Program)
Performance
Piano Pedagogy
Theory

Also offered as:
None

Program Status: Active

CONTACT INFORMATION

Program Director: William P. Hayden
Other Contact: n/a
Phone: 813-974-2311
Fax: 813-974-xxxx
Email: n/a
Web Address: http://music.arts.usf.edu/

Mailing Address:
University of South Florida
School of Music
Music Program
4202 E. Fowler Avenue, FAH110
Tampa, FL 33620

PROGRAM INFORMATION

Music Faculty, Alumni, and Students
Perhaps the most compelling reason to study music at the University of South Florida is the opportunity to work with our superb music faculty. These gifted, dedicated artists/scholars are among the preeminent leaders in their fields and have been carefully chosen for their professional training, excellence in musical performance and research, and pedagogical expertise. They are featured on many professional recordings and appear in prestigious concert venues around the world. Their compositions are premiered globally. Their scholarship is published in the leading research journals, books, and monographs in their disciplines. The School of Music also invites guest composers, conductors, and performing musicians to enhance its performances and to provide master classes, symposia, and clinics for students and the public.

Many USF music alumni are currently performers in a variety of concert settings and successful teachers in public schools, colleges, and universities around the country in a variety of concert settings. The School of Music at USF offers the student the opportunity to study with distinguished faculty and to be in the company of other superior music students for an exciting and exacting period of study.

The Master of Music degree provides students with an opportunity to pursue intense, focused study in their music specialty, coupled with a vigorous, balanced curriculum in music theory, music literature, and electives. Students in this program are mentored expertly by senior faculty and exhibit mastery of their specialty at the end of the course of study by way of appropriate capstone experiences, including recitals or theses and comprehensive examinations. The provisions and balance of these experiences comport precisely with the curriculum guidelines required by the national Association of Schools of Music.

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

Major Research Areas:
Composition, Conducting, Jazz Studies, Music Performance, Music Theory

ADMISSION INFORMATION

Program may have additional requirements; check before applying.

DEGREE PROGRAM REQUIREMENTS:
Successful auditions and/or interviews are required for admission into conducting, performance, pedagogy, and theory programs. Approved portfolios are required for admission into composition (jazz or traditional). In addition a Music Assessment Test in music history, theory, and literature must be taken before classes being in the first semester. Based upon the scores the music faculty may require remediation in one or more areas of study. Graduate review courses are offered each Fall semester. The Graduate Record Examination (GRE) is not required for the M.M. degree program. Students who do not enroll in the semester for which they applied and were admitted
must receive permission from the Director of Graduate Studies in music to enroll in courses in the following semester(s). This procedure is to determine the availability of applied and academic courses in music. An official undergraduate Transcript for a completed undergraduate degree in music (from an accredited program) is required with the application. The overall Grade Point Average (GPA) for upper division credit hours must be at least 3.0 and the G.P.A. for all music courses included in the undergraduate degree must be at least 3.0. International students must include copies of graduation Certificates and/or Diplomas (in addition to official transcripts) with their applications. International students must have at least a score of 550 (or 213 for the computer version) on the Test of English as a Foreign Language (TOEFL), or they must have completed English Language Institute (ELI) Level 4 or Level 5 and have passed the ELI Exit Assessment. Credit hours earned in Certificate Programs at USF may be applied toward a master’s degree. Up to 8 graduate credit hours or 3 graduate courses may be transferred from other institutions. M.M. students may apply up to 6 credit hours of 4000-level courses, which are deemed appropriate for their degree program and which are taken at USF as part of their graduate studies. M.M. students must successfully complete a Comprehensive Examination at the end of the program of study. Details regarding this examination may be obtained from the Director of Graduate Studies in Music.

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

OTHER INFORMATION:
N/a
Music Program
Ph.D.

DEGREE INFORMATION

Type of Degree Offered:
Doctor of Philosophy - Ph.D.

Concentrations Offered:
Composition
Conducting (Choral Conducting, Instrumental Conducting)
Jazz Composition
Jazz Performance
Music Education (Ph.D. Program)
Performance
Piano Pedagogy
Theory

Also offered as:
None

Program Status: Active

CONTACT INFORMATION

Program Director: William P. Hayden
Other Contact: n/a
Phone: 813-974-2311
Fax: n/a
Email: n/a
Web Address: http://music.arts.usf.edu/

Mailing Address:
University of South Florida
School of Music
Music Program
4202 E. Fowler Avenue, FAH110
Tampa, FL 33620

PROGRAM INFORMATION

Music Faculty, Alumni, and Students
Perhaps the most compelling reason to study music at the University of South Florida is the opportunity to work with our superb music faculty. These gifted, dedicated artists/scholars are among the preeminent leaders in their fields and have been carefully chosen for their professional training, excellence in musical performance and research, and pedagogical expertise. They are featured on many professional recordings and appear in prestigious concert venues around the world. Their compositions are premiered globally. Their scholarship is published in the leading research journals, books, and monographs in their disciplines. The School of Music also invites guest composers, conductors, and performing musicians to enhance its performances and to provide master classes, symposia, and clinics for students and the public. Many USF music alumni are currently performers in a variety of concert settings and successful teachers in public schools, colleges, and universities around the country in a variety of concert settings. The School of Music at USF offers the student the opportunity to study with distinguished faculty and to be in the company of other superior music students for an exciting and exacting period of study.

In certain cases, acceptance into the Ph.D. program is possible without the master’s degree. The M.A. in Music Education may be acquired by completing those credits required for that degree, while at the same time enrolling in courses for the Ph.D. However, all applicants are expected to have two or more years of teaching experience in a public or private school (or its equivalent). The Ph.D. degree empowers students to become scholarly producers of research in music education, and a dissertation and dissertation defense are required.

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

Major Research Areas:
Composition, Conducting, Jazz Studies, Music Performance, Music Theory

ADMISSION INFORMATION

Program may have additional requirements; check before applying.

DEGREE PROGRAM REQUIREMENTS:

Music Education Concentration in the Ph.D. in Music Program Requirements

Official undergraduate and graduate Transcripts (from accredited programs) are required with applications. Students who wish to transfer graduate credits not included on the “degree” transcripts must also include those transcripts. The overall baccalaureate degree Grade Point Average (GPA) must be at least 3.0, and the master’s degree GPA must be at least 3.5. In addition, a minimum of three (3) current Letters of Recommendation from people qualified to speak on behalf of the applicant’s professional capabilities must accompany the application.

In certain cases, acceptance into the Ph.D. program is possible without the master’s degree. The M.A. in Music
Education may be acquired by completing those credits required for that degree, while at the same time enrolling in courses for the Ph.D. However, all applicants are expected to have two or more years of teaching experience in a public or private school (or its equivalent).

A successful Interview with the music education faculty is required for admission. In addition, the Educational Testing Service (ETS) Graduate Record Examination (GRE) General Test (after October 1, 2002) must be taken for assessment purposes prior to enrollment in the program, and the results must be delivered to the USF School of Music as part of the application and admission process. A sample of scholarly writing for review by the music education faculty should be submitted at the time of application to the program. International students must include copies of graduation Certificates And Diplomas (in addition to official transcripts) with their applications. If English is not their primary language, they must have at least a score of 550 (or 213 for the computer version) on the Test of English as a Foreign Language (TOEFL), or they must have completed English Language Institute (ELI) Level 4 or Level 5 and have passed the ELI Exit Assessment.

ADMISSION REQUIREMENTS

1. Master’s degree from an accredited institution, unless the MA is pursued concurrently with enrollment in the PhD program
2. Minimum of two years of teaching experience in elementary and/or secondary school(s)
3. Minimum GPA of 3.0 for upper division of undergraduate degree (all credits beyond the first 60), or minimum GPA of 3.5 for master’s degree
4. Three letters of recommendation
5. Acceptable scores on the GRE General Test, taken after October 1, 2002.
6. Sample of the applicant’s best academic writing for review by the faculty
7. Interview with the faculty, either in person or by other arrangement.

Specialization (21 hours)
MUE 7815
Foundations of Musical Learning and Teaching  3

MUE 7835
Philosophical Issues in Music Education  3

MUE 7939
Doctoral Seminar in Music Education Research  3

Choose 1 of 2:
MUE 7937
Special Topics in Music Education  3

MUE 7990
Doctoral Seminar on Music in Higher Education  3

Specialization Electives:
Three additional courses in Education, Music Education, and/or another discipline relevant to the student’s research

Cognate (9 hours)
Choice of graduate courses in music from the following: Jazz Studies, Music Composition, Music Conducting, Music History, Music Literature, Music Performance, Music Theory 9

Statistics and Measurement (12 hours)
Students must have completed EDF 6432 Foundations of Measurement and EDF 6481 Foundations of Educational Research as prerequisites for the following courses. They may be taken as Specialization Electives, if not taken previously: EDF 6407 Statistical Analysis for Educational Research I (4); EDF 7408 Statistical Analysis for Educational Research II (4); EDF 7410 Design of Systematic Studies in Education (4)

Dissertation (18 hours)
Prerequisite: Comprehensive Qualifying Examination
MUE 7980  Dissertation (2-19 hours)  18

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

OTHER INFORMATION:
N/a
Music Education Program
M.A.

DEGREE INFORMATION

Type of Degree Offered:
Master of Arts - M.A.

Concentrations Offered:
n/a

Also offered as:
concentration in the Doctor of Philosophy (Ph.D.) in Music

Program Status: Active

CONTACT INFORMATION

Program Director: William P. Hayden
Other Contact: David Williams
Phone: 813-974-2311
Fax: 813-974-2091
Email: wphayden@arts.usf.edu
Web Address: http://music.arts.usf.edu

Mailing Address:
University of South Florida
School of Music
Music Education Program
4202 E. Fowler Avenue, FAH110
Tampa, FL 33620

PROGRAM INFORMATION

Music Faculty, Alumni, and Students
Perhaps the most compelling reason to study music at the University of South Florida is the opportunity to work with our superb music faculty. These gifted, dedicated artists/scholars are among the preeminent leaders in their fields and have been carefully chosen for their professional training, excellence in musical performance and research, and pedagogical expertise. They are featured on many professional recordings and appear in prestigious concert venues around the world. Their compositions are premiered globally. Their scholarship is published in the leading research journals, books, and monographs in their disciplines. The School of Music also invites guest composers, conductors, and performing musicians to enhance its performances and to provide master classes, symposia, and clinics for students and the public.

Many USF music alumni are currently performers in a variety of concert settings and successful teachers in public schools, colleges, and universities around the country in a variety of concert settings. The School of Music at USF offers the student the opportunity to study with distinguished faculty and to be in the company of other superior music students for an exciting and exacting period of study.

Master of Arts Program Description
Graduate education in music education at the University of South Florida is focused on research. The Master of Arts degree in music education empowers students to become thoughtful consumers of research in music education. This program captures a balanced array of courses in music education, research techniques, music theory/history/literature, and electives in music. It concludes with a comprehensive examination. The provisions and balance of these experiences comport precisely with the curriculum guidelines required by the National Association of Schools of Music.

Accreditation:
The Commission on Colleges of the Southern Association of Colleges and Schools (S.A.C.S.); National Association of Schools of Music (N.A.S.M.)

Major Research Areas:

ADMISSION INFORMATION
Program may have additional requirements; check before applying.

DEGREE PROGRAM REQUIREMENTS:

Master of Arts Program Requirements
An official Transcript for a completed undergraduate degree in music (from an accredited program) is required with the application. The overall Grade Point Average (GPA) for upper division credit hours must be at least 3.0, and the GPA for all music, music education, and education courses included in the undergraduate degree must be at least 3.0. A minimum of three (3) current Letters of Recommendation from people qualified to speak on behalf of the applicant’s professional capabilities must accompany the application. Final approval for admission must be granted by the music education faculty.

International students must include copies of graduation Certificates and/or Diplomas (in addition to official transcripts) with their applications. If English is not their primary language, they must have at least a score of 550 (or 213 for the computer version) on the Test of English as a Foreign Language (TOEFL), or they must have
completed English Language Institute (ELI) Level 4 or Level 5 and have passed the ELI Exit Assessment.

Credit hours earned in Certificate programs at USF may be applied toward a master’s degree. Up to 8 graduate credit hours or 3 graduate courses may be transferred from other institutions. M.A. students may apply up to 6 credit hours of 4000-level courses, which are deemed appropriate for their degree program and which are taken at USF as part of their graduate studies.

An assessment test in music history, theory, and literature must be taken if a student intends to register for graduate courses in music history, literature, and/or theory. Based upon the scores, the music faculty may require remediation in one or more areas of study in order to qualify the student for permission to enroll in certain courses.

M.A. students must successfully complete a Comprehensive Examination at the end of the program of study. A contract for this examination may be obtained from the Director of Graduate Studies in Music.

SEQUENCE OF EVENTS AND PROTOCOLS
1. ADMISSION
   a. Admission to USF Graduate Studies with acceptable transcript(s)
   b. MA: Music Assessment Test required at the beginning of first semester. (Interviews, auditions, portfolios, and the GRE are not required for admission to the M.A. degree program.)
      PhD: ETS GRE General Test (prior to admission)
2. COMPLETION OF COURSES (required for MA or PhD degree programs)
   PhD:
   a. Appointment of Doctoral Committee
   b. Comprehensive Qualifying Examination
   c. Admission to Candidacy
3. APPLICATION FOR GRADUATION (due by beginning of final semester)
   MA: Completion of course and credit hour requirements.
   PhD: Dissertation
4. COMPREHENSIVE EXAMINATION
   MA:
   a. Selection of Committee, including major professor (chair) and two other professors from varying concentrations in music with whom they have studied. The student and the committee must sign a contract available from the Director of Graduate Studies in Music at the beginning of the final term.
   b. Written Examination
      i. Collection of examination questions by chair from committee members
      ii. Presentation of questions to candidate with deadline of one to two weeks for completion
      iii. Candidate submits questions and answers to chair one week before oral examination
   c. Oral Examination (meeting for candidate and committee members scheduled by chair)
   d. Final Recommendation with signatures presented to Director of Graduate Studies in Music and Director of School of Music.
   PhD:
   a. Final Oral Examination (Dissertation Defense)
   b. Final Recommendation with signatures presented to Director of Graduate Studies in Music and Director of School of Music.

Courses are subject to change. Summer courses may be offered.

All inquiries should be directed to the Director of Graduate Studies in Music. The responsibility for seeing that all graduation requirements are met rests with the student.

MA Required Courses:
Core=18
Electives=14
Total=32

MUS 6520- Computer Applications in Music (3)
MUE 6080- Foundations & Principles of Music Educ. (3)
MUE 6648-Techniques & Research in Alt MUE Models (3)
MUS 6793- Techniques of Research in Music & MUE (Normally taken in the first semester of study) (3)
EDF 6432- Foundations of Measurement (3)

Choose 1 of 3:
MUE 6616 – General Music Education K-12 (3)
MUE 6336- Adv Tech & Research in Vocal/Choral (3)
MUE 6347- Adv Tech & Research in Instrumental (3)

M.A. Electives
5-6 hours
MUL and/or MUT courses

8-9 hours
Other graduate music courses, which may include Directed Studies and/or Directed Research.

MUE 6648 Techniques of Research in Alt MUE Models

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

OTHER INFORMATION:
Core=18Electives=14Total=32

3 MUS 6520- Computer Applications in Music
3 MUE 6080- Fdtns & Principles of Music Educ.
3 MUE 6648-Techniques & Res. in Alt MUE Models
3 MUS 6793- Techniques of Research in Music & MUE (Normally taken in the first semester of study)
3 EDF 6432- Foundations of Measurement

Choose 1 of 3:
3 MUE 6616 – General Music Education K-12
3 MUE 6336- Adv Tech & Res in Vocal/Choral
3 MUE 6347- Adv Tech & Res in Instrumental

M.A. Electives
5-6 hours
MUL and/or MUT courses

8-9 hours
Other graduate music courses, which may include Directed Studies and/or Directed Research.
Nursing Program
M.S.

DEGREE INFORMATION

Type of Degree Offered:
Master of Science
- M.S.

Concentrations Offered:
Adult Health Nursing
Child Health Nursing
Acute Care Nursing
Family Health Nursing
Gerontological Nursing
Occupational Health Nursing
Oncology Nursing
Psychiatric-Mental Health Nursing
Gero-Psychiatric Nursing
Health Care Systems Leadership and Informatics in Nursing
Nursing Education

Also offered as:
Joint Master’s Degree in Nurse-Midwifery
Dual Degree M.S./M.P.H. in Occupational Health Nursing/Adult Nurse Practitioner

Program Status: Active

CONTACT INFORMATION

Program Director: Lois Gonzalez
Other Contact: n/a
Phone: 813-974-2191
Fax: 813-974-5418
Email: vcesario@hsc.usf.edu
Web Address: http://hsc.usf.edu/nocms/nursing/index.html

Mailing Address:
University of South Florida
Nursing
Nursing Program
12901 Bruce B Downs, MDC22
Tampa, FL 33620

PROGRAM INFORMATION

Applications are reviewed as files are completed. Check published admission dates for a given semester.

The program in Nursing leading to a Master of Science degree prepares its graduates for careers in advanced practice, nursing education and nursing administration and informatics. Students choose from a variety of nursing specialty options in advanced practice roles and enroll in a prescribed set of core courses central to all specialty options student as well as specialty courses and electives.

Successful completion of the master’s program in advanced nursing practice (Adult, Health, Family Health, Child Health, Oncology Nursing, and Psychiatric-Mental Health, Acute Care, Gerontology) meets the eligibility requirements for advanced practice licensure (ARNP-nurse practitioner) in Florida and qualifies students to sit for specialty national certification examinations. Successful completion of the master’s program in Healthcare Systems Leadership qualifies graduates to sit for the American Nurses’ Association Credentialing Center examination in Nursing Administration. Successful completion of the concentration in Nursing Informatics qualifies graduates to sit for the American Nurses’ Association Credentialing Center examination in nursing informatics.

Graduate Program Objectives

Graduates of the M.S. in Nursing at the University of South Florida are prepared to:
1. Synthesize knowledge from the natural and social sciences, the arts and humanities and the art of science of nursing in advanced practice nursing.
2. Apply principles of advanced nursing practice to improve health outcome culturally diverse and vulnerable populations.
3. Contribute to the advancement of the profession through research, consultation, collaboration, education, leadership and clinical excellence.
4. Influence the development of health policy through leadership as a clinical expert, client advocate, or professional participant in the health care delivery system.
5. Create a professional practice environment that values and integrates legal/ethical principles in the provision of quality health care.
6. Embrace the pursuit of life-long learning for professional development through participation informal and informal education.
7. Support excellence in health care delivery by utilizing research findings, participating in the research process and identifying new issues for further investigative development.
Accreditation:
Accredited by the Commission on Colleges of the Southern Association of College and Schools.

Major Research Areas:
Research opportunities include: Quality of Life/End of Life; Women, Children, Families and Communities; Health and Services Research, Interdisciplinary Mental Health, and Patient Safety.

ADMISSION INFORMATION
Program may have additional requirements; check before applying.

DEGREE PROGRAM REQUIREMENTS:
The M.S. program in nursing requires completion of the credit hours required by the concentration. Academic advisors work with students to design both full-time and part-time program plans in the specialty areas. The curricula for all advanced practice concentrations include the following components: theory-research component, advanced practice component, and specialty core. Students must complete either a thesis or take the Capstone Course: Writing for Publication.

The Master’s Program for advanced practice concentrations is organized in three curriculum components:
1. Theory-Research Component (12 credit hours)
   - NGR 6121 Theoretical Basis of Advanced Practice Nursing (3)
   - NGR 6800 Nursing Research (3)
   - NGR 6135 Ethical, Legal & Policy Issues in Advanced Nursing (3)
   - NGR 6971 Thesis (3) or NGR 6950 Capstone Course: Writing for Publication (3)

2. Advanced Practice Component (12 credit hours)
   - NGR 6140 Pathophysiology for Advanced Practice (3)
   - NGR 6080 Family and Population Based Health Promotion (3)
   - NGR 6199 Pharmacology for Advanced Practice (3)
   - NGR 6001 Health Assessment in Advanced Practice (3)

3. Specialty Cores
   Primary Care Advanced Practice - Specialty Core
   - NGR 6205 Primary Care: Adolescent/Women (3)
   - NGR 6205L PC Practicum: Adolescent/Women (3)
   - NGR 6207 Primary Care: Adult (3)
   - NGR 6207L PC Practicum: Adult (3)
   - NGR 6305 Primary Care: Child (3)
   - NGR 6305L PC Practicum: Child (3)
   - NGR 6271 Adult Health Management (3)
   - NGR 6371 Child Health Management (3)
   - NGR 6700 Advance Practice Transitions (2)
   - NGR 6700L APN Transitions Practicum (3)

   Oncology – Specialty Core
   - NGR 6096 Oncology Nursing Concepts (3)
   - NGR 6142 Pathobiology of Neoplasia (3)
   - NGR 6207 Primary Care: Adult (3)
   - NGR 6947 Practicum I in Advanced Oncology Nursing (3)
   - NGR 6948L Practicum II in Advanced Oncology Nursing (3)
   - NGR 6949 Practicum III in Advanced Oncology Nursing (3)
   - Electives (3)

   Psych/Mental Health – Specialty Core
   - NGR 6500 Theoretical Foundations for Advanced Psychiatric Nursing (3)
   - NGR 6501 Psychopathology for Advanced Psychiatric Nursing (3)
   - NGR 6502 Treatment Modalities for Advanced Psychiatric Nursing (3)
   - NGR 6500L Psychiatric ARNP Practicum: Psychiatric Care Outpatient (3)
   - NGR 6501L Psychiatric ARNP Practicum: Psychiatric Care Inpatient Acute/Chronic Care (3)
   - NGR 6538 Psychopharmacology for Advanced Nursing Practice (2)
   - NGR 6700 Advanced Practice Transitions (2)
   - NGR 6700L APN Transitions Practicum (2)
   - CHOICE Primary Care: Adult, Adolescents & Young Adult or Children (3)
   - CHOICE Primary Care Practicum (3)

   Healthcare Systems Leadership in Nursing
   The Healthcare Systems Leadership in Nursing program is organized into 2 core components.

1. Theory-Research Core (15 credits):
   - NGR 6121 Theoretical Basis of Advanced Practice Nursing (3)
   - NGR 6800 Nursing Research (3)
   - NGR 6135 Ethical, Legal, and Policy Issues in Advanced Nursing Practice (3)
   - NGR 6931 Statistics for Nursing Practice & Research OR PHC 6050 Biostatistics (3)
   - NGR 6971 Thesis (3) or NGR 6950 Capstone Course (3)

2. Healthcare Systems Leadership Core (23 credits):
   - NGR 6723 Applied Management in Nursing and Healthcare (3)
   - NGR 6735 Applied Organizational Theory in Nursing and Healthcare (3)
   - ACG 6025 Financial Accounting (2)
   - ECO 6114 Managerial Economics (2)
   - FIN 6406 Financial Management (2)
   - NGR 6734 Healthcare Systems Leadership: Seminar (2)
   - NGR 6734L Healthcare Systems Leadership: Internship (3)
   - Related Electives (6)

   Healthcare Systems Leadership in Nursing Informatics
   The Healthcare Systems Leadership in Nursing Informatics program is organized into two core components.
   1. Theory-Research Core (15 credits):
      - NGR 6121 Theoretical Basis of Advanced Practice Nursing (3)
NGR 6800 Nursing Research (3)
NGR 6135 Ethical, Legal, and Policy Issues in Advanced Nursing Practice (3)
NGR 6931 Statistics for Nursing Practice & Research OR PHC 6050 Biostatistics (3)
NGR 6971 Thesis (3) OR NGR 6950 Capstone Course: Writing for Publication (3)

2. Healthcare Systems Core and Nursing Informatics Core (25 credits):
NGR 5635 Informatics in Nursing and Healthcare (3)
ISM 6021 Management Information Systems (2)
NGR 6637 Clinical Systems Applications and Management (3)
ACG 6025 Financial Accounting for Managers (2)
NGR 6723 Applied Management in Nursing and Healthcare (3)
NGR 6735 Applied Organizational Theory in Nursing and Healthcare (3)
NGR 6831 Applied Analysis for Outcomes Research of Large Healthcare Databases (3)
NGR 6734 Healthcare Systems Leadership: Seminar (2)
NGR 6734L Healthcare Systems Leadership: Internship (3)

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

OTHER INFORMATION:

PROGRESSION POLICY
USF College of Nursing

Progression Policy
To Be Effective Fall 2004 And Apply To All Graduate Students (Current and New)

Graduate students must earn the grade of B or higher (B minus is not acceptable) in each required course in their respective nursing program. Graduate students must also maintain an overall average of 3.0 (B) in order to be considered to be “in good standing.” Students also must meet any special conditions of their admissions. No grade below C will be accepted toward a graduate degree. All grades will be counted in computing the overall grade point average. Students must have an overall GPA of 3.0 at the completion of their respective program, or they will not be awarded a degree from the University of South Florida.

If a student earns a grade below a B in a required course, she/he must repeat the course. The course must be taken in the next semester that it is offered and the student must earn a B or higher. Any student, who earns below a B in two or more required courses or earns below a B in a required course twice, will be dismissed from the College. The Dean of the College of Nursing, or her designee (Associate Dean of Academic Affairs or the Associate Dean of Doctoral Studies), will notify students who are dismissed, in writing.

Clinical Performance
Patient safety and welfare are the most critical criteria of the clinical rotation. If at any time during the clinical rotation the student places the patient in an actual or potentially hazardous or unsafe situation or the faculty judges the student to be deficient in clinical competence for patient care responsibility, the student will fail the course regardless of previous clinical performance. Students who receive an unsatisfactory grade for their clinical performance may be dismissed from the program, regardless of academic standing in other classes.

Human Research Conduct
The protection of the rights of human subjects is the most critical criteria of any research study involving human subjects. If at any time during the conduction of a human subject study, a student violates the rights of the participants, the study will be stopped. Permission to continue with the study will be dependent upon an investigation by the University of South Florida Institutional Review Board, the student’s research advisor and the Dean of the College of Nursing.

Progression Process
Any student who is not in good standing at the end of a semester shall be placed on probation. The College may also place students on probation for other reasons as designated. The Associate Dean of Academic Affairs shall make notification of probation in writing to the student, the student’s program director, and the Student Affairs Committee. The student shall meet with their program director to develop a Probation Plan detailing the plan for removal of probationary status. The Associate Dean of Academic Affairs shall approve the Plan. A copy of the approved Plan will be given to the student and their program director; a written copy will also be placed in the student’s academic record.

At the end of the probationary semester, the program director shall review the student’s progress and compliance with the Probationary Plan, and recommend to the Student Affairs Committee one of the three alternatives: (1) Removal of probation, (2) Continued probation and continuance of the Probation Plan, and (3) Dismissal from the degree program. The Student Affairs committee shall make a recommendation, in writing, to the Associate Dean of Academic Affairs. The Associate Dean shall notify the student in writing of their academic status.

The Dean of Graduate Studies, upon recommendation by the Dean of the student’s College, may dismiss the student from a degree-seeking status after one semester of probation. The inability of a Veteran Student to achieve a passing cumulative GPA after two semesters of probationary status will result in termination.

Approved at March 2003 Faculty Council.
Approved December 15, 2003 Graduate Council
Nursing Science Program
Ph.D.

DEGREE INFORMATION

Type of Degree Offered:
Doctor of Philosophy - Ph.D.

Concentrations Offered:
- Adult Health Nursing
- Child Health Nursing
- Acute Care Nursing
- Family Health Nursing
- Gerontological Nursing
- Occupational Health Nursing
- Oncology Nursing
- Psychiatric-Mental Health Nursing
- Gero-Psychiatric Nursing
- Health Care Systems Leadership and Informatics in Nursing
- Nursing Education

Also offered as:
Joint Master’s Degree in Nurse-Midwifery
Dual Degree M.S./M.P.H. in Occupational Health Nursing/Adult Nurse Practitioner

Program Status:

PROGRAM INFORMATION

Applications are reviewed as files are completed. Check published admission dates for a given semester.

The Ph.D. prepares scholars to 1) generate and disseminate knowledge through independent and/or collaborative efforts; 2) conduct intra/interdisciplinary research; (3) assume leadership roles in nursing education and practice; 4) influence the delivery of health care services, especially for high risk and medically underserved groups; and 5) educate future generations of nurses for health care delivery in the 21st Century through the use of innovative intra/interdisciplinary educational approaches.

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

Major Research Areas:
Research opportunities include: Quality of Life/ End of Life; Women, Children, Families and Communities; Health and Services research, Interdisciplinary Mental Health, and Patient Safety.

ADMISSION INFORMATION
Program may have additional requirements; check before applying.

CONTACT INFORMATION

Program Director: Mary Evans
Other Contact: n/a
Phone: 813-974-2191
Fax: 813-974-5418
Email: veccario@hsc.usf.edu
Web Address: http://hsc.usf.edu/nocms/nursing/index.html

Mailing Address:
University of South Florida
Nursing Science Program
12901 Bruce B Downs, MDC22
Tampa, FL 33620

DEGREE PROGRAM REQUIREMENTS:
There are two programs of study that lead to the Ph.D. in Nursing.

MS (Nursing) - Ph.D.
A minimum of 60 hours post-master’s is required. The program can be completed in three to four years by full-time students and five or more years for part-time students. Specific program requirements are determined on an individual basis by the student’s supervisory committee.

Knowledge Building Core (Required)
NGR 7124 Advances in Nursing Science (3)
NGR 7816 Research Designs and Methods in Nursing (3)
NGR 7841, NGR 7842 Statistical Methods in Nursing Research, I and II (6)
NGR 7815 Qualitative Methods in Nursing Research (3)
NGR 7823 Psychometrics and Measurement for Nursing Research (3)
NGR 7941 Nursing Research Pro Seminar (3)
NGR 7941 Nursing Research Pro Seminar (3)
Satisfactory completion of the Knowledge Building Core required courses prepares students to successfully complete the dissertation research.

--Cognate (12-15 Credits)
Students select a cognate area to further support the student’s area of expertise in nursing and the research problem that will be addressed by the dissertation research. Examples of appropriate areas of study for the cognate might be organizational administration, health policy, physiology, cognitive psychology, organizational psychology, gerontology, epidemiology, biostatistics, administration, applied anthropology, and educational measurement.

Electives (3-6 Credits) Students must complete 3-6 elective credits. Three credits must be in research methods.

Qualifying Examinations:

Dissertation (12-24 Credits)
Students must complete and successfully defend a dissertation.

BS (Nursing) - Ph.D.
A minimum of 96 hours post-baccalaureate is required. The program is designed as a full-time four-year course of study.

Knowledge Building Core (Required)
NGR 6800 Nursing Research (3)
NGR 6121 Theoretical Basis of Advanced Practice Nursing (3)
NGR 6140 Pathophysiology for Advanced Practice Nursing (3)
NGR 6001 Health Assessment for Advanced Practice (3)
NGR 6199 Pharmacology for Advanced Nursing Practice (3)
NGR 6950 Capstone: Writing for Publication (3)
NGR 7124 Advances in Nursing Science (3)
NGR 7816 Research Designs and Methods in Nursing (3)
NGR 7841, NGR 7842 Statistical Methods in Nursing Research, I and II (6)
NGR 7815 Qualitative Methods in Nursing Research (3)
NGR 7941 Nursing Research Pro Seminar (3)
NGR 7123 Theory Development in Nursing (3) –
NGR 7823 Psychometrics and Measurement for Nursing Research (3)
NGR 7911 Esthetics and Ethics in Nursing and Health Care (3)
NGR 7912 Health Policy Issues in Nursing and Health Care (3)
NGR 7915 Directed Research (3) –

NGR 7705 - Academic Citizenship in Nursing (1)
NGR 6710 Principles of Nursing Education (3)
NGR 6822 Measurement for Nursing Education and Research (3)
NGR 6791 Academic Nursing Practicum (3) –

Cognate 12-15 Credits
Students select a cognate area of study to further support the student’s area of expertise in nursing and the research problem that will be addressed by the dissertation research. Examples of appropriate areas of study for the minor might be organizational administration, health policy, physiology, cognitive psychology, organizational psychology, gerontology, epidemiology, biostatistics, administration, applied anthropology, and educational measurement.

Electives (3-6 Credit Hours) Students must complete 3-6 elective credits. Three credits must be in research methods.

Qualifying Examinations
Dissertation 12-24 Credits
Students complete and successfully defend a dissertation.

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

OTHER INFORMATION:

PROGRESSION POLICY
USF College of Nursing

Progression Policy
To Be Effective Fall 2004 And Apply To All Graduate Students (Current and New)

Graduate students must earn the grade of B or higher (B minus is not acceptable) in each required course in their respective nursing program. Graduate students must also maintain an overall average of 3.0 (B) in order to be considered to be “in good standing.” Students also must meet any special conditions of their admissions. No grade below C will be accepted toward a graduate degree. All grades will be counted in computing the overall grade point average. Students must have an overall GPA of 3.0 at the completion of their respective program, or they will not be awarded a degree from the University of South Florida.

If a student earns a grade below a B in a required course, she/he must repeat the course. The course must be taken in the next semester that it is offered and the student must earn a B or higher. Any student, who earns below a B in two or more required courses or earns below a B in a required course twice, will be dismissed from the College. The Dean of the College of Nursing, or her designee
(Associate Dean of Academic Affairs or the Associate Dean of Doctoral Studies), will notify students who are dismissed, in writing.

Clinical Performance

Patient safety and welfare are the most critical criteria of the clinical rotation. If at any time during the clinical rotation the student places the patient in an actual or potentially hazardous or unsafe situation or the faculty judges the student to be deficient in clinical competence for patient care responsibility, the student will fail the course regardless of previous clinical performance. Students who receive an unsatisfactory grade for their clinical performance may be dismissed from the program, regardless of academic standing in other classes.

Human Research Conduct

The protection of the rights of human subjects is the most critical criteria of any research study involving human subjects. If at any time during the conduction of a human subject study, a student violates the rights of the participants, the study will be stopped. Permission to continue with the study will be dependent upon an investigation by the University of South Florida Institutional Review Board, the student’s research advisor and the Dean of the College of Nursing.

Progression Process

Any student who is not in good standing at the end of a semester shall be placed on probation. The College may also place students on probation for other reasons as designated. The Associate Dean of Academic Affairs shall make notification of probation in writing to the student, the student’s program director, and the Student Affairs Committee. The student shall meet with their program director to develop a Probation Plan detailing the plan for removal of probationary status. The Associate Dean of Academic Affairs shall approve the Plan. A copy of the approved Plan will be given to the student and their program director; a written copy will also be placed in the student’s academic record.

At the end of the probationary semester, the program director shall review the student’s progress and compliance with the Probationary Plan, and recommend to the Student Affairs Committee one of the three alternatives: (1) Removal of probation, (2) Continued probation and continuance of the Probation Plan, and (3) Dismissal from the degree program. The Student Affairs committee shall make a recommendation, in writing, to the Associate Dean of Academic Affairs. The Associate Dean shall notify the student in writing of their academic status.

The Dean of Graduate Studies, upon recommendation by the Dean of the student’s College, may dismiss the student from a degree-seeking status after one semester of probation. The inability of a Veteran Student to achieve a passing cumulative GPA after two semesters of probationary status will result in termination.

Approved at March 2003 Faculty Council.
Approved December 15, 2003 Graduate Council
**Philosophy Program**  
**M.A.**

### DEGREE INFORMATION

**Type of Degree Offered:**  
Master of Arts - M.A.

**Concentrations Offered:**  
n/a

**Also offered as:**  
n/a

**Program Status:**  
Active

### CONTACT INFORMATION

**Program Director:**  
Martin Schonfeld

**Other Contact:**  
Phone: 813-974-5698  
Fax: 813-974-5914  
Email: mschonfe@chuma.cas.usf.edu  
Web Address:  
http://www.cas.usf.edu/philosophy/index.html

**Mailing Address:**  
University of South Florida  
Department of Philosophy  
Philosophy Program  
4202 E. Fowler Avenue, FAO 226  
Tampa, FL 33620

### PROGRAM INFORMATION

Contact program for information or visit  
http://www.cas.usf.edu/philosophy/index.html

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

**Major Research Areas:**  
n/a

### ADMISSION INFORMATION

Program may have additional requirements; check before applying.

### DEGREE PROGRAM REQUIREMENTS:

Once admitted, students must successfully complete at least 30 credit hours in accordance with the following requirements:

1. Proseminar I (6 credit hours) and Proseminar II (6 credit hours)
2. Course in Symbolic Logic (3 credit hours) with a grade of “B” or better
3. Coursework in the History of Philosophy from the list appearing in “Areas of Study and Coursework” (6 credit hours)
4. Coursework in Metaphysics, Epistemology, and Logic from the list appearing in “Areas of Study and Coursework” (3 credit hours)
5. Course in Value Theory from the list appearing in “Areas of Study and Coursework” (3 credit hours)
6. Coursework or an examination demonstrating reading proficiency in one of the following languages: ancient Greek, Latin, French, German, or a substitute approved by the Director of Graduate Studies and the Department Chair

7. Thesis (3 credit hours) OR A comprehensive examination on a required list of readings necessary constructed by the candidate and a committee of examiners Areas of Study and Coursework  
Students will be required to meet the distribution of credit hours described below. While many of the courses could fall into two or more categories, the categories as stated should provide a comprehensive training in philosophy. When there is good reason to approve substitutions for the courses listed, the Director of Graduate Studies has the discretion to approve substitutions on a case-by-case basis. The Department Chair must also approve any substitutions.

**Areas of Study and Coursework**

**I. Ancient and Medieval**

a. Plato  
b. Aristotle  
c. Topics in Ancient/Medieval Philosophy

**II. Early Modern Philosophy**

a. Rationalists  
b. Empiricists  
c. Topics in Early Modern Philosophy

**III. Kant**

**IV. 19th and 20th Century Philosophy**

a. Continental I: Phenomenology to Hermeneutics  
b. Continental II: Political Theory and Continental Social Theory  
c. Continental III: From Structuralism to Deconstruction  
d. Marxism
e. Analytic Philosophy
f. Topics in Twentieth Century Philosophy

**Metaphysics, Epistemology, and Logic**

(A minimum of 3 credit hours required for the M.A.; a minimum of 9 credit hours required for the Ph.D.)

I. Seminar in Metaphysics
II. Seminar in Epistemology
III. Seminar in the Philosophy of Natural Science (including Math)
IV. Seminar in the Philosophy of Social Science
V. Seminar in Logic
VI. Modal Logic
VII. Philosophy of Language
VIII. Philosophy of Mind
IX. Topics in Contemporary Philosophy (if topic is in the area of metaphysics, epistemology, and logic)

**Value Theory**

A minimum of 3 credit hours required for the M.A.; a minimum of 9 credit hours required for the Ph.D. Only one required value theory class may come from category II)

I. General Topics
   a. Seminar in Ethics
   b. Seminar in Social Philosophy
   c. Seminar in Political Philosophy
   d. Seminar in Aesthetics
   e. Topics in Feminist Philosophy

II. Specific Topics
   a. Seminar in the Philosophy of Religion
   b. Seminar in the Philosophy of Law
   c. Seminar in the Philosophy of History

COURSES:
See [http://www.ugs.usf.edu/sab/sabs.cfm](http://www.ugs.usf.edu/sab/sabs.cfm)

OTHER INFORMATION:
N/a
Philosophy Program
Ph.D.

DEGREE INFORMATION
Type of Degree Offered:
Doctor of Philosophy - Ph.D.
Concentrations Offered:
n/a
Also offered as:
Program Status: Active

CONTACT INFORMATION
Program Director: Martin Schonfeld
Other Contact:
Phone: 813-974-5698
Fax: 813-974-5914
Email: mschonfe@chuma.cas.usf.edu
Web Address:
http://www.cas.usf.edu/philosophy/index.html

Mailing Address:
University of South Florida
Philosophy
Philosophy Program
4202 E. Fowler Ave, FAO 226
Tampa, FL 33620

PROGRAM INFORMATION
Contact program for information or visit
http://www.cas.usf.edu/philosophy/index.html

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

Major Research Areas:
n/a

ADMISSION INFORMATION
Program may have additional requirements; check before applying.

DEGREE PROGRAM REQUIREMENTS:
Once admitted, students must successfully complete at
least 90 credit hours in accordance with the following
requirements:
1. Proseminar I (6 credit hours) and Proseminar II (6
credit hours)
2. Course in Symbolic Logic (3 credit hours) with a grade
of “B” or better
3. Coursework in the History of Philosophy from the list
appearing in “Areas of Study and Coursework” (12 credit
hours)
4. Coursework in Metaphysics, Epistemology, and Logic
from the list appearing in “Areas of Study and Coursework” (9 credit hours)
5. Coursework in Value Theory from the list appearing in
“Areas of Study and Coursework” (9 credit hours)
6. Coursework or an examination demonstrating reading
proficiency in two of the following languages: ancient
Greek, Latin, French, German. A substitution for one of
these languages may be approved by the Director of
Graduate Studies and the Department Chair
7. 12 credit hours in area(s) of doctoral research
8. A comprehensive examination on a required list of
readings constructed by the candidate and a committee of
examiners
9. A written prospectus for the dissertation and an oral
defense of this prospectus
10. A written dissertation and an oral defense of this
dissertation

Areas of Study and Coursework
Students will be required to meet the distribution of credit
hours described below. While many of the courses could
fall into two or more categories, the categories as stated
should provide a comprehensive training in philosophy.
When there is good reason to approve substitutions for the
courses listed, the Director of Graduate Studies has the
discretion to approve substitutions on a case-by-case basis.
The Department Chair must also approve any substitutions.

History of Philosophy
(A minimum of 6 credit hours required for the M.A.,
courses must come from two different categories; a
minimum of 12 credit hours required for the Ph.D. with at
least one from each of the four categories)

I. Ancient and Medieval
a. Plato
b. Aristotle
c. Topics in Ancient/Medieval Philosophy
II. Early Modern Philosophy
a. Rationalists
b. Empiricists
c. Topics in Early Modern Philosophy
III. Kant
IV. 19th and 20th Century Philosophy
   a. Continental I: Phenomenology to Hermeneutics
   b. Continental II: Political Theory and Continental Social Theory
   c. Continental III: From Structuralism to Deconstruction
   d. Marxism
   e. Analytic Philosophy
   f. Topics in Twentieth Century Philosophy

Metaphysics, Epistemology, and Logic
(A minimum of 3 credit hours required for the M.A.; a minimum of 9 credit hours required for the Ph.D.)

I. Seminar in Metaphysics
II. Seminar in Epistemology
III. Seminar in the Philosophy of Natural Science (including Math)
IV. Seminar in the Philosophy of Social Science
V. Seminar in Logic
VI. Modal Logic
VII. Philosophy of Language
VIII. Philosophy of Mind
IX. Topics in Contemporary Philosophy (if topic is in the area of metaphysics, epistemology, and logic)

Value Theory
A minimum of 3 credit hours required for the M.A.; a minimum of 9 credit hours required for the Ph.D. Only one required value theory class may come from category II)

I. General Topics
   a. Seminar in Ethics
   b. Seminar in Social Philosophy
   c. Seminar in Political Philosophy
   d. Seminar in Aesthetics
   e. Topics in Feminist Philosophy

II. Specific Topics
   a. Seminar in the Philosophy of Religion
   b. Seminar in the Philosophy of Law
   c. Seminar in the Philosophy of History

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

OTHER INFORMATION:
N/a
Physical Education Program
M.A.

DEGREE INFORMATION

Type of Degree Offered:
Master of Arts - M.A.

Concentrations Offered:
n/a

Also offered as:
n/a

Program Status:

CONTACT INFORMATION

Program Director: Michael Stewart
Other Contact: n/a
Phone: 813-974-3443
Fax: 813-974-xxxx
Email: n/a
Web Address: http://pe.usf.edu/grad/pe/

Mailing Address:
University of South Florida
School of Physical Education, Wellness and Sports Studies
Physical Education Program
4202 E. Fowler Avenue, PED214
Tampa, FL  33620

PROGRAM INFORMATION

Contact program for information.

Accreditation:
Accredited by the Commission on Colleges of the Southern Association of College and Schools; National Council for Accreditation of Teacher Education, national Association for Sport and Physical Education.

Major Research Areas:
n/a

ADMISSION INFORMATION

Program may have additional requirements; check before applying.

DEGREE PROGRAM REQUIREMENTS:

Two Plans are available (Plan I, Plan III).

Plan I – Program of Study 30 hours minimum

Process Core
EDF 6432 3 hours
Current Trends in Physical Education 3 hours
PET 6535C
Select from the following 24 hours
PET 6205 PET 6645 PET 6906 PET 6695C
PET 6425 PET 6910L PET 6496 PET 6346
Elective (3 hours)

Comprehensive Examination - A written comprehensive examination is required during the semester in which the student completes the requirements for the master’s degree.

Plan III – Program of Study 30 hours minimum

Process Core
EDF 6432 EDF 6481 6 hours
Current Trends in Physical Education 3 hours
PET 6535C
This is an individually planned program. The student will select 21 hours of coursework in consultation with an advisor.

Comprehensive Exam - A written comprehensive examination is required during the semester in which the student completes the requirements for the master’s degree

Please be advised that program and/or course requirements are subject to change, per state legislative mandates, Florida Department of Education program approval standards, and accreditation criteria.

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

OTHER INFORMATION:

N/a
Physical Therapy Program  
M.S.P.T.

### DEGREE INFORMATION

**Type of Degree Offered:**  
Master of Science in Physical Therapy - M.S.P.T.

**Concentrations Offered:**  
n/a

**Also offered as:**  
n/a

**Program Status:**  
Active

### CONTACT INFORMATION

<table>
<thead>
<tr>
<th>Program Director</th>
<th>Martha A. Clendenin</th>
</tr>
</thead>
<tbody>
<tr>
<td>Other Contact</td>
<td>n/a</td>
</tr>
<tr>
<td>Phone</td>
<td>813-974-8870</td>
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<tr>
<td>Fax</td>
<td>813-974-8915</td>
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<tr>
<td>Email</td>
<td><a href="mailto:ptinfo@hsc.usf.edu">ptinfo@hsc.usf.edu</a></td>
</tr>
<tr>
<td>Web Address</td>
<td><a href="http://hsc.usf.edu/COM/physicaltherapy/">http://hsc.usf.edu/COM/physicaltherapy/</a></td>
</tr>
</tbody>
</table>

**Mailing Address:**  
University of South Florida  
School of Physical Education  
Physical Therapy Program  
12901 Bruce B. Downs Blvd., MDC77  
Tampa, FL  33612

### PROGRAM INFORMATION

Physical therapists are health professionals with special expertise in the science of movement. They use this knowledge to provide preventive and therapeutic services and psychological support to people of all ages with movement dysfunction. Professional education includes study of basic sciences and the professional skills needed for client examination, evaluation, diagnosis, prognosis, intervention and outcomes. Students will participate in comprehensive clinical internships throughout the program. The School of Physical Therapy is a component of the College of Medicine and is a limited access professional program with an annual enrollment of 30 students per year.

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

### Major Research Areas:

n/a

### ADMISSION INFORMATION

Program may have additional requirements; check before applying.

### DEGREE PROGRAM REQUIREMENTS:

Students must complete 71 credit hours of professional coursework and meet the general graduate requirements of the university, for admission and graduation.

### COURSES:

See [http://www.ugs.usf.edu/sab/sabs.cfm](http://www.ugs.usf.edu/sab/sabs.cfm)

### OTHER INFORMATION:

N/a
Physics Program
M.S.

DEGREE INFORMATION

Type of Degree Offered:
Master of Science - M.S.

Concentrations Offered:
Atmospheric Physics
Atomic and Molecular Physics
Laser Physics
Materials Physics
Medical Physics
Optical Physics
Semiconductor Physics
Solid State Physics

Also offered as:
Joint M.S. Degree – Physics/Engineering Science
Interdisciplinary arrangement - Ph.D. in Engineering Science

Program Status: Active

CONTACT INFORMATION

Program Director: Sara Witanachchi
Other Contact: n/a
Phone: 813-974-2871
Fax: 813-974-5813
Email: Web Address: http://www.cas.usf.edu/physics/

Mailing Address:
University of South Florida
Department of Physics
Physics Program
4202 E. Fowler Avenue, PHY114
Tampa, FL 33620

PROGRAM INFORMATION

Contact program for information.

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

Major Research Areas:
n/a

ADMISSION INFORMATION

Program may have additional requirements; check before applying.

DEGREE PROGRAM REQUIREMENTS:

Students admitted to the graduate program in Physics, will consult with the Physics Director of Graduate Studies, who will be the student’s course advisor and monitor the student’s progress. After a decision has been made concerning the student’s academic goals, the duties of graduate advising will be assumed by the major professor and the supervisory committee appointed by the department chairperson. In keeping with the student’s academic goals, the supervisory committee will determine the appropriate course of study and examinations required for graduation for both the thesis and non-thesis options.

Thesis
The student desiring the M.S. degree with a thesis is required to take a minimum of 30 credits, no more than 6 of which may be for PHY 6911, PHY 6935, and PHY 6971. Of these 30 credits, 16 must be in physics courses numbered 6000 or above. The student must present a thesis acceptable to the supervisory committee covering research work amounting to a minimum of 6 units of credit in PHY 6971.

Non-Thesis
The student desiring the M.S. degree without a thesis is required to take a minimum of 30 credits, no more than three of which may be for PHY 6909, PHY 6911, PHY 6935, and PHY 6971. Of these 30 credits, 16 must be in physics courses numbered 6000 or above. The student must pass a comprehensive examination.

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

OTHER INFORMATION:

N/a
# Physics, Applied Program Ph.D.

## Degree Information

### Type of Degree Offered:
Doctor of Philosophy - Ph.D.

### Concentrations Offered:
- Atmospheric Physics
- Atomic and Molecular Physics
- Laser Physics
- Materials Physics
- Medical Physics
- Optical Physics
- Semiconductor Physics
- Solid State Physics

### Also offered as:
- Joint M.S. Degree – Physics/Engineering Science
- Interdisciplinary arrangement - Ph.D. in Engineering Science

### Program Status:
Active

## Contact Information

<table>
<thead>
<tr>
<th>Program Director</th>
<th>Sara Witanachchi</th>
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</thead>
<tbody>
<tr>
<td>Other Contact</td>
<td>n/a</td>
</tr>
<tr>
<td>Phone</td>
<td>813-974-2871</td>
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<td>Fax</td>
<td>813-974-5813</td>
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<tr>
<td>Email</td>
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<tr>
<td>Web Address</td>
<td><a href="http://www.cas.usf.edu/physics/">http://www.cas.usf.edu/physics/</a></td>
</tr>
</tbody>
</table>

### Mailing Address:
University of South Florida
Physics
Physics, Applied Program
4202 E. Fowler Avenue, PHY114
Tampa, FL 33620

## Program Information

This new program implemented in Fall 2000 emphasizes the interdisciplinary training of applied physicists for the practical, engineering applications of theoretical, fundamental physical concepts. The program encompasses the areas of laser physics, materials physics, computational physics, environmental physics and sensors, biomedical physics and imaging science.

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

### Major Research Areas:
N/A

## Admission Information

Program may have additional requirements; check before applying.

## Degree Program Requirements:

The program requires a total of 90 credit hours distributed as follows:
- Core Courses in theoretical and applied areas 27 hours
- Lab training 6 hours
- Electives 9 hours
- Directed and Dissertation Research 47 hours

An important feature of this program is a course in laboratory measurement and instrumentation and a field-site industrial practicum, which comprise the 6 hours of lab training.

### Courses:
See [http://www.ugs.usf.edu/sab/sabs.cfm](http://www.ugs.usf.edu/sab/sabs.cfm)

## Other Information:
N/A
Plan I, II, III
Education

Plan I - A program of study designed for those with a bachelor's degree and appropriate initial certification who desire to increase their competence in a subject specialization or receive professional preparation in one of the service areas. The program requires 36 hours minimum, selected in consultation with an advisor.

All Plan I students must take a minimum of one of the following Process Core (Foundation) courses. Additional requirements are described under the Program descriptions.

Process Core 3-12 hours
- EDF 6432
- EDF 6211 or EDF 6215
- EDF 6481
- EDF 6517 or EDF 6544 or EDF 6606
- EDF 6481
- EDF 6517 or EDF 6544 or EDF 6606
Current Trends Course in Teaching Specialization - 3 hours
Professional Foreign Language Education Coursework - 3 hours
Specialization - 18 hours minimum
Comprehensive Examination
Thesis (Some programs have a Thesis option available)

Plan II - A program of study designed for the holder of a non-education baccalaureate degree who desires to meet initial certification requirements as part of a planned program leading to the M.A. degree.

Process Core 15 hours
- EDF 6432
- EDF 6481
- EDG 4620
- EDF 6211 or EDF 6215
- EDF 6517 or EDF 6544 or EDF 6606
Current Trends Course in Teaching Specialization - 3 hours
ESOL - 9 hours
Professional Foreign Language Education Courses - 3 hours
Specialization/Concentration (Content) Coursework - 18 hours minimum
Internship - 6 hours
Planned observation and teaching, supervised by a member of the University faculty and a school staff member. Please refer to http://www.coedu.usf.edu/sas for specific internship and State of Florida testing requirements. Comprehensive Examinations required in the College of Education and the College of Arts and Sciences.

Plan III - A program for holders of a non-education baccalaureate degree who do not wish to meet teacher certification requirements in the State of Florida.

Process Core 12 hours
- EDF 6432
- EDF 6481
- EDF 6211 or EDF 6215
- EDF 6517 or EDF 6544 or EDF 6606
Current Trends Course in Teaching Specialization - 3 hours
Professional Foreign Languages Education Courses - 9 hours
Plus undergraduate prerequisites as necessary
Specialization/Concentration (Content) - 18 hours minimum
Comprehensive Examination
Political Science Program
M.A.

DEGREE INFORMATION

Type of Degree Offered:
Master of Arts - M.A.

Concentrations Offered:
n/a

Also offered as:
n/a

Program Status:  Active

CONTACT INFORMATION

Program Director:  Steven Tauber
Other Contact:  n/a
Phone:  813-974-2384
Fax:  813-974-0832
Email:  stauber@chuma1.cas.usf.edu
Web Address:  http://www.cas.usf.edu/

Mailing Address:
University of South Florida
Government and International Affairs
Political Science Program
4202 E. Fowler Avenue, SOC107
Tampa, FL  33620

PROGRAM INFORMATION

The graduate program leading to the M.A. in Political Science is designed to offer advanced general instruction in Political Science. It prepares its graduates for positions of responsibility in the public and private sectors, as well as in research, teaching, and study at the doctoral level. For instructional purposes, the graduate curriculum in Political Science has been divided into three fields:

Field 1 Comparative Government and Politics (courses with a CPO prefix)
Field 2 International Relations (courses with an INR prefix)
Field 3 Public Policy (courses with a PUP, POS, POT, URP, or PAD prefix)

Students select one field as a major area and another field as a minor area. They must consult with the graduate coordinator to map out a course plan.

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

Major Research Areas:
n/a

ADMISSION INFORMATION

Program may have additional requirements; check before applying.

DEGREE PROGRAM REQUIREMENTS:
A minimum of 36 hours of graduate level course work distributed according to the following five categories:

1. Required Research Methods Sequence (6 hours): POS 6735 (3), POS 6736 (3)

2. Major field (15 hours): Core course in major area (either CPO 6901, INR 6007 or PUP 6007), and 4 additional courses.

3. Minor field (9 hours): Core course in major area (either CPO 6991, INR 6007 or PUP 6007), and 2 additional courses.


Comprehensive Examination - After finishing course work each student must pass a written comprehensive examination covering his or her major and minor fields. These examinations must be taken before completion of the thesis and thesis defense. Students cannot enroll in thesis hours before the semester they have signed up to take their exams.

Course Listings:
CPO 5934    CPO 6036     CPO 6091
INR 5014   INR 5086     INR 6007     INR 6036    INR 6107
PAD 6060   PAD 6275     PAD 6307    PAD 6338    PAD 6339  PAD 6355
POS 5094     POS 5155    POS 6045    POS 6095    POS 6127    POS 6157    POS 6415    POS 6427
POT 5626    POT 6007
PUP 5607    PUP 6007
URP 6056

Students take a maximum of 3 hours of Independent Study (POS 6909) and 3 hours maximum of Directed Research (POS 6919)

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

OTHER INFORMATION:
N/a
Psychology Program
M.A.

### DEGREE INFORMATION

**Type of Degree Offered:**
Master of Arts - M.A.

**Concentrations Offered:**
- Clinical Psychology
- Cognitive and Neural Sciences
- Industrial-Organizational Psychology

**Also offered as:**
n/a

**Program Status:**
Active

### CONTACT INFORMATION

**Program Director:**
Judith B. Bryant

**Other Contact:**
n/a

**Phone:**
813-974-2492

**Fax:**
813-974-4075

**Email:**
jbryant@luna.cas.usf.edu

**Web Address:**
http://www.cas.usf.edu/psychology/

**Mailing Address:**
University of South Florida
Department of Psychology
Psychology Program
4202 E. Fowler Avenue, PCD4118G
Tampa, FL 33620

### PROGRAM INFORMATION

The graduate faculty of the Psychology Department is divided into three broad concentrations: Clinical, Cognitive and Neural Sciences, and Industrial-Organizational. Each of these areas offer Ph.D. level training in the following areas of special expertise.

**Clinical** – Personality and Psychopathology, Psychological Assessment and Interventions, Health Psychology, Addictive Behaviors, Clinical Child Psychology, Clinical Neuropsychology.

**Cognitive and Neural Sciences** – Behavioral Neuroscience, Cognition, Judgment and Decision Making, Language Development, Memory, Perception. In addition, with faculty in Communication Sciences and Disorders, the Cognitive and Neural Sciences faculty offer a specialization in Speech/Language/Hearing Sciences.


**Accreditation:**
Accredited by the Commission on Colleges of the Southern Association of College and Schools; Clinical Program: American Psychological Association, and the Academy of Psychological Clinical Science.

**Major Research Areas:**
n/a

### ADMISSION INFORMATION

Program may have additional requirements; check before applying.

### DEGREE PROGRAM REQUIREMENTS:

The Department of Psychology does not admit students seeking a terminal M.A. degree in Psychology. The student must complete 30 hours of graduate Psychology courses and all area requirements. All students are required to complete two quantitative methods courses (PSY 6217A, PSY 6217B). In addition, the student must complete core courses required by their program areas. The student must successfully pass an oral examination.

**COURSES:**
See [http://www.ugs.usf.edu/sab/sabs.cfm](http://www.ugs.usf.edu/sab/sabs.cfm)

**OTHER INFORMATION:**
N/a
# Psychology Program

## Ph.D.

### DEGREE INFORMATION

**Type of Degree Offered:**
Doctor of Philosophy - Ph.D.

**Concentrations Offered:**
- Clinical Psychology
- Cognitive and Neural Sciences
- Industrial-Organizational Psychology

**Also offered as:**
n/a

**Program Status:**
Active

### CONTACT INFORMATION

**Program Director:** Judith B. Bryant
**Other Contact:** Michael Brannick
**Phone:** 813-974-2492
**Fax:** 813-974-4075
**Email:** jbryant@luna.cas.usf.edu
**Web Address:** [http://www.cas.usf.edu/psychology/](http://www.cas.usf.edu/psychology/)

**Mailing Address:**
University of South Florida
Department of Psychology
Psychology Program
4202 E. Fowler Avenue, PCD4118G
Tampa, FL 33620

### PROGRAM INFORMATION

The graduate faculty of the Psychology Department is divided into three broad concentrations: Clinical, Cognitive and Neural Sciences, and Industrial-Organizational. Each of these areas offer Ph.D. level training in the following areas of special expertise.

- **Clinical** – Personality and Psychopathology, Psychological Assessment and Interventions, Health Psychology, Addictive Behaviors, Clinical Child Psychology, Clinical Neuropsychology.
- **Cognitive and Neural Sciences** – Behavioral Neuroscience, Cognition, Judgment and Decision Making, Language Development, Memory, Perception. In addition, with faculty in Communication Sciences and Disorders, the Cognitive and Neural Sciences faculty offer a specialization in Speech/Language/Hearing Sciences.

### ACCREDITATION

Accredited by the Commission on Colleges of the Southern Association of Colleges and Schools; Clinical Program: American Psychological Association, and the Academy of Psychological Clinical Science.

### MAJOR RESEARCH AREAS

n/a

### ADMISSION INFORMATION

Program may have additional requirements; check before applying.

### DEGREE PROGRAM REQUIREMENTS:

The Ph.D. in Psychology is offered in the fields of Clinical, Cognitive and Neural Sciences, and Industrial/Organizational Psychology.

Advanced doctoral-level requirements are determined by the student and the Ph.D. committee. In addition to the completion of all M.A. requirements in Psychology or its equivalent:

1. The Cognitive and Neural Sciences and Industrial-Organizational programs require the student to take a graduate minor. A minor program of study, composed of work done outside the student’s field of concentration and including a minimum of two appropriate graduate level courses, is required by the department for admission to Ph.D. candidacy. The minor must be approved by the student’s Ph.D. committee and the Department of Psychology.

2. Successful completion of a comprehensive examination or major area paper.

3. A one-year internship in an approved clinical facility for Ph.D. students in the Clinical Psychology Program.

4. Six months of internship in approved industrial or community agencies as available for Ph.D. students in the Industrial/Organizational Psychology program.

### COURSES:

See [http://www.ugs.usf.edu/sab/sabs.cfm](http://www.ugs.usf.edu/sab/sabs.cfm)

### OTHER INFORMATION:

N/a
Public Administration Program
M.P.A.

DEGREE INFORMATION

Type of Degree Offered:
Master of Public Administration - M.P.A.

Concentrations Offered:
n/a

Also offered as:
a doctoral minor in public administration

Program Status: Active

CONTACT INFORMATION

Program Director: Joan E. Pynes
Other Contact: n/a
Phone: 813-974-2510
Fax: 813-974-0804
Email: pynes@cas.usf.edu
Web Address: http://www.cas.usf.edu/pad/index.html

Mailing Address:
University of South Florida
Government and International Affairs
Public Administration Program
4202 East Fowler Avenue, SOC107
Tampa, FL 33620

PROGRAM INFORMATION

The Public Administration Program offers a multi-disciplinary course of study leading to the Master of Public Administration (M.P.A.). The M.P.A. degree is designed primarily to prepare students for successful leadership roles and management careers in the public (i.e., governmental and quasi-governmental organizations) and non-profit sectors. Students enrolled in the M.P.A. Program pursue careers in local, state, or federal agencies of government, non-profit organizations, and special service districts. Additionally the M.P.A. degree prepares individuals for further academic study leading to a doctorate in Public Administration or Ph.D. in Public Policy and Administration, as well as a variety of other disciplines.

Those employed in public management positions may wish to pursue the M.P.A. in order to broaden educational backgrounds to prepare for increased job responsibilities, or to change career paths. Such in-service students currently make up the majority of the M.P.A. student body.

The Public Administration Program also offers courses of study leading to a Graduate Certificate in Public Management (G.C.P.M.) and Graduate Certificate in Nonprofit Management (G.C.N.M.). These programs are designed for individuals who wish to acquire knowledge of public and nonprofit management theory and practices, but who do not find it necessary or feasible to pursue the M.P.A. degree. The M.P.A. Program also serves pre-service students who have recently completed a bachelor’s degree, who wish to gain entry to a professional career track. Students who are admitted as regular M.P.A. degree candidates are not eligible for the Graduate Certificate in Public Management.

Accreditation:
Accredited by the Commission on Colleges of the Southern Association of College and Schools; the National Association of Schools of Public Affairs and Administration (NASPAA).

Major Research Areas:
n/a

ADMISSION INFORMATION

Program may have additional requirements; check before applying.

DEGREE PROGRAM REQUIREMENTS:
The M.P.A. required curriculum is 42-51 credit hours. All students must complete a core of nine courses (27 hours) and either four or six courses (12-18 hours) in elective coursework selected in consultation with an advisor. Students with appropriately documented administrative work experience commensurate with their career goals may not be required to complete an internship in a public or nonprofit agency. However, students without practical administrative experience in a public or nonprofit sector must complete an internship (6 hours).

The number of elective courses required depends upon the exit option selected by the student. The Problem Report exit option requires four (4) elective courses, as well as registration for PAD 6909, Problem Report for three (3) hours. The Capstone course exit option requires students take 6 elective courses, one of which will be PAD 6056, The Practice of Public Management.

At least 24 credit hours must be taken at the 6000 level. A minimum of 27 credit hours must be taken in formal, regularly scheduled classes. Courses at the 5000 level are accepted for credit toward the M.P.A. degree.
Core Courses
PAD 5700 Research Methods in Public Administration
PAD 6060 Public Administration Theory and Practice
PAD 6041 Ethics and Public Service
PAD 6227 Public Budgeting
PAD 6307 Policy Analysis, Implementation, and Program Evaluation
PAD 6417 Human Resources Management
PAD 6703 Quantitative Aids for Public Managers
PAD 6710 Public Information Management
PAD 6275 Political Economy for Public Managers

Electives (12-18 credit hours)
Each student must take 12-18 elective credit hours depending on the exit option chosen. Students should refer to the MPA website http://www.cas.usf.edu/pad/index.html for courses approved by the Program.

Internship (6 credit hours)
Pre-service students are required to complete a supervised internship in a governmental or non-profit organization (PAD 6946). Internships provide students the opportunity to gain valuable experience in the public sector, thereby enhancing the academic course of study.

Internship credits must be earned while the student is in residence and before the student has completed regular course work requirements. Exceptions to this rule can only be made by the M.P.A. Director and must be made in advance. In-service students who have appropriate managerial/work experience commensurate with their career goals, may not be required to complete an internship. After consultation with the student, the M.P.A. Director may choose to waive the internship requirement.

Exit Requirements
Capstone Course (3 credit hours)
PAD 6056, The Practice of Public Management, is a final step before graduation. To be eligible to enroll in the capstone course, students must have completed a minimum of 39 credit hours (13 courses). This course is designed to provide the student with an opportunity to apply the knowledge and skills acquired during studies in the Public Administration Program. This course is designed to challenge students to test managerial proficiency, develop capabilities in synthesizing and integrating conceptual frameworks, and to relate these skills to real managerial situations.

OR

PAD 6909 Problem Report (3 credit hours)
The Problem Report focuses on a significant administrative/policy problem confronting a public or nonprofit manager or agency. Upon completion, the student should have demonstrated the ability to identify a problem and a set of solutions, collect and analyze relevant data, and present and defend a recommended course of action intended to solve the problem. The student is expected to present and be prepared to defend these findings (both verbally and in writing) to a committee. This option is available only after the student has obtained faculty advisors and submitted a written proposal that complies with the Problem Report requirements. Copies of Problem Report, the proposal guidelines, and expectations can be obtained from the M.P.A. Program or M.P.A. website. Students selecting this exit option must complete four elective courses. This requirement is to be completed near the end of the student’s course of study. In-service students must select a problem for study that lies outside their immediate work-related responsibilities. The Problem Report Committee shall consist of at least two M.P.A. faculty and, where appropriate, and with permission of the examination committee, a qualified person outside the M.P.A. Program. A minimum grade of “B” must be achieved on the Problem Report. Students must register for PAD 6909 Problem Report, for three (3) credit hours.

Doctoral Minor in Public Administration
Students enrolled in doctoral level courses of study in other programs (e.g., Anthropology, Psychology, Education) can, with their program’s approval, complete a doctoral minor in Public Administration. The Director of the Public Administration Program will assist the student in the design of an appropriate course of study. The Ph.D. Candidate with a minimal background in public administration is advised to enroll in one or more of the following courses:

PAD 5044 Environment of Public Administration
PAD 6060 Public Administration Theory and Practice
PAD 6227 Public Budgeting
PAD 6307 Policy Analysis, Implementation, and Program Evaluation
PAD 6417 Human Resources Management

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

OTHER INFORMATION:  n/a
Public Health Program
M.P.H.

DEGREE INFORMATION

Type of Degree Offered:
Master of Public Health - M.P.H.

Concentrations Offered:
Detailed descriptions are available at:
http://publichealth.usf.edu/program_offered.html
Accelerated Health Education (M.P.H.)
Behavioral Health (M.P.H., M.S.P.H., Ph.D.)
Biostatistics (M.P.H., M.S.P.H.)
Community and Family Health (Ph.D.)
Environmental and Occupational Health (Ph.D.)
Environmental Health (M.P.H., M.S.P.H.)
Epidemiology (M.P.H., M.S.P.H., Ph.D.)
Epidemiology and Biostatistics (Ph.D.)
Executive Program for Health Professionals (M.P.H.)
Executive Program for MBA Physicians (M.P.H.)
Global Health (M.P.H.)
Health Administration (MHA) – see MHA program
Health Care Organizations and Management (M.P.H., M.S.P.H., Ph.D.)
Health Policies and Programs (M.P.H., M.S.P.H., Ph.D.)
Health Policy and Management (M.S.P.H., Ph.D.)
Industrial Hygiene (M.P.H., M.S.P.H., Ph.D.)
International Health Management (M.P.H., M.S.P.H., Ph.D.)
Managed Care (M.P.H.)
Maternal & Child Health (M.P.H., M.S.P.H., Ph.D.)
Occupational Health (M.P.H., M.S.P.H.)
Occupational Health for Health Professionals (Ph.D.)
Occupational Medicine Residency (M.P.H., M.S.P.H.)
Public Health Education (M.P.H., M.S.P.H., Ph.D.)
Public Health Practice (M.P.H.)*
Social & Behavioral Science (M.S.P.H., Ph.D.)
Toxicology (M.P.H., M.S.P.H., Ph.D.)
Tropical /Communicable Diseases (M.P.H., M.S.P.H., Ph.D.)

* The MPH in Public Health Practice has an entry requirement of a minimum of three years of experience. It is offered in a distance learning format, traditional format, as well as a Weekend MPH.

CONTACT INFORMATION

Program Director: Magdalene Argiry
Other Contact: n/a
Phone: 813-974-3623
Fax: 813-974-8121
Email: advisor@hsc.usf.edu
Web Address: http://www.publichealth.usf.edu/

Mailing Address:
University of South Florida
Public Health
Public Health Program
13201 Bruce B. Downs Boulevard, MDC056
Tampa, FL 33612

Also offered as:
Public Health and Anthropology (MPH/MA or PhD)
offered in the following concentrations:
Epidemiology
Global Health
Environmental Health
Tropical Public Health / Communicable Disease
Public Health Education
Maternal and Child Health
Healthcare Organizations and Management

Public Health and Medicine (MPH/MD) for already enrolled USF College of Medicine Students
Public Health and Social Work (MPH/MSW)
Behavioral Health
Maternal and Child Health

Public Health (Occupational Health) and Nursing / Adult Nurse Practitioner (MPH/MS)
Public Health and Biochemistry / Molecular Biology (MPH/PhD) offered in the following concentrations:
Epidemiology
Environmental Health
Toxicology and Risk Assessment
Tropical Public Health

Program Status: Active

PROGRAM INFORMATION

The base of knowledge for public health comes from a variety of disciplines, ranging from social sciences to biological sciences and business, brought together by a commitment to improve the public's health. Thus, the field of public health is broad and is open to students from diverse academic disciplines including Health Sciences, Education, Engineering, Business, Communications, Mathematics, Social and Natural Sciences. Graduates are prepared for interdisciplinary focused public health professional careers as administrators, managers, educators, researchers, and direct service providers.

The College’s four departments are: Community and Family Health, Environmental and Occupational Health, Epidemiology and Biostatistics, and Health Policy and
Management. In addition, there are two College-wide programs: Public Health Practice and Global Health.

Core content is directly related to addressing and meeting public health issues. Off campus programs may reflect additional offerings to meet specific needs. The College accommodates the working professional as well as the full-time student by offering late afternoon and evening classes and state-of-the-art distance learning through satellite delivery at numerous sites throughout the state and selected U.S. and international sites, web delivery of courses and certificates, and weekend M.P.H. for experienced Health Care professionals.

Accreditation:
Accredited by the Commission on Colleges of the Southern Association of College and Schools. The College is fully accredited by the Council on Education in Public Health and the Accreditation Board for Engineering and Technology.

Major Research Areas:
Faculty major research areas are listed at: http://publichealth.usf.edu/facultyprofile.html

Community and Family Health
- http://publichealth.usf.edu/cfh/
  Adolescent health risk taking behavior, Community-based prevention marketing, Health literacy, Health issues of developing countries, Family violence, Injury control and prevention, Effects of the infant environment on health and development, Social determinants of family health status.

Environmental and Occupational Health
 http://publichealth.usf.edu/eoh/

Epidemiology and Biostatistics
- http://publichealth.usf.edu/epb/

Health Policy and Management
- http://publichealth.usf.edu/hpm/
Financial management, Health economics, Quantitative methods in health services, health insurance, Health law, Health information management, Organizational model and principles applied to health settings, Quality and performance improvement, Health policy and policy analysis, Strategic planning and marketing.

ADMISSION INFORMATION
Program may have additional requirements; check before applying.

DEGREE PROGRAM REQUIREMENTS:
For information on program requirements, refer to the college website: www.publichealth.usf.edu

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

OTHER INFORMATION:
N/a
Public Health Program
M.S.P.H.

DEGREE INFORMATION

Type of Degree Offered:
Master of Science in Public Health - M.S. P.H.

Concentrations Offered:
Detailed descriptions are available at:
http://publichealth.usf.edu/program_offered.html
Accelerated Health Education (M.P.H.)
Behavioral Health (M.P.H., M.S.P.H., Ph.D.)
Biostatistics (M.P.H., M.S.P.H.)
Community and Family Health (Ph.D.)
Environmental and Occupational Health (Ph.D.)
Environmental Health (M.P.H., M.S.P.H.)
Epidemiology (M.P.H., M.S.P.H., Ph.D.)
Epidemiology and Biostatistics (Ph.D.)
Executive Program for Health Professionals (M.P.H.)
Executive Program for MBA Physicians (M.P.H.)
Global Health (M.P.H.)
Health Administration (M.H.A) – see M.H.A program
Health Care Organizations and Management (M.P.H., M.S.P.H., Ph.D.)
Health Policies and Programs (M.P.H., M.S.P.H., Ph.D.)
Health Policy and Management (M.S.P.H., Ph.D.)
Industrial Hygiene (M.P.H., M.S.P.H., Ph.D.)
International Health Management (M.P.H., M.S.P.H., Ph.D.)
Managed Care (M.P.H.)
Maternal & Child Health (M.P.H., M.S.P.H., Ph.D.)
Occupational Health (M.P.H., M.S.P.H.)
Occupational Health for Professionals (Ph.D.)
Occupational Medicine Residency (M.P.H., M.S.P.H.)
Public Health Education (M.P.H., M.S.P.H., Ph.D.)
Public Health Practice (M.P.H.)*
Social & Behavioral Science (M.S.P.H., Ph.D.)
Toxicology (M.P.H., M.S.P.H., Ph.D.)
Tropical /Communicable Diseases (M.P.H., M.S.P.H., Ph.D.)

* The MPH in Public Health Practice has an entry requirement of a minimum of three years of experience. It is offered in a distance learning format, traditional format, as well as a Weekend MPH.

CONTACT INFORMATION

Program Director: Magdalene Argiry
Other Contact: n/a
Phone: 813-974-3623
Fax: 813-974-8121
Email: advisor@hsc.usf.edu
Web Address: http://www.publichealth.usf.edu/

Mailing Address:
University of South Florida
Public Health
Public Health Program
13201 Bruce B. Downs Boulevard, MDC056
Tampa, FL 33612

Also offered as:
Public Health and Anthropology (MPH/MA or PhD)
offered in the following concentrations:
Epidemiology
Global Health
Environmental Health
Tropical Public Health / Communicable Disease
Public Health Education
Maternal and Child Health
Healthcare Organizations and Management

Public Health and Medicine (MPH / MD) for already enrolled USF College of Medicine Students
Public Health and Social Work (MPH / MSW)
Behavioral Health
Maternal and Child Health

Public Health (Occupational Health) and Nursing / Adult Nurse Practitioner (MPH / MS)
Public Health and Biochemistry / Molecular Biology (MPH / PhD) offered in the following concentrations:
Epidemiology
Environmental Health
Toxicology and Risk Assessment
Tropical Public Health

Program Status: Active

PROGRAM INFORMATION

The base of knowledge for public health comes from a variety of disciplines, ranging from social sciences to biological sciences and business, brought together by a commitment to improve the public's health. Thus, the field of public health is broad and is open to students from diverse academic disciplines including Health Sciences, Education, Engineering, Business, Communications, Mathematics, Social and Natural Sciences. Graduates are prepared for interdisciplinary focused public health professional careers as administrators, managers, educators, researchers, and direct service providers.
The College’s four departments are: Community and Family Health, Environmental and Occupational Health, Epidemiology and Biostatistics, and Health Policy and Management. In addition, there are two College-wide programs: Public Health Practice and Global Health.

Core content is directly related to addressing and meeting public health issues. Off campus programs may reflect additional offerings to meet specific needs. The College accommodates the working professional as well as the full-time student by offering late afternoon and evening classes and state-of-the-art distance learning through satellite delivery at numerous sites throughout the state and selected U.S. and international sites, web delivery of courses and certificates, and weekend M.P.H. for experienced Health Care professionals.

Accreditation:
Accredited by the Commission on Colleges of the Southern Association of College and Schools. The College is fully accredited by the Council on Education in Public Health and the Accreditation Board for Engineering and Technology.

Major Research Areas:
Faculty major research areas are listed at: http://publichealth.usf.edu/facultyprofile.html

Community and Family Health - http://publichealth.usf.edu/cfh/
Adolescent health risk taking behavior, Community-based prevention marketing, Health literacy, Health issues of developing countries, Family violence, Injury control and prevention, Effects of the infant environment on health and development, Social determinants of family health status.

Environmental and Occupational Health – http://publichealth.usf.edu/eh/ 

Epidemiology and Biostatistics - http://publichealth.usf.edu/epb/

Health Policy and Management – http://publichealth.usf.edu/hpm/
Financial management, Health economics, Quantitative methods in health services, health insurance, Health law, Health information management, Organizational model and principles applied to health settings, Quality and performance improvement, Health policy and policy analysis, Strategic planning and marketing.

ADDITION INFORMATION
Program may have additional requirements; check before applying.

DEGREE PROGRAM REQUIREMENTS:
For information on program requirements, refer to the college website: www.publichealth.usf.edu

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

OTHER INFORMATION:
N/a
Public Health Program
Ph.D.

DEGREE INFORMATION
Type of Degree Offered:
Doctor of Philosophy - Ph.D.

Concentrations Offered:
Detailed descriptions are available at:
http://publichealth.usf.edu/program_offered.html
Accelerated Health Education (M.P.H.)
Behavioral Health (M.P.H., M.S.P.H., Ph.D.)
Biostatistics (M.P.H., M.S.P.H.)
Community and Family Health (Ph.D.)
Environmental and Occupational Health (Ph.D.)
Environmental Health (M.P.H., M.S.P.H.)
Epidemiology (M.P.H., M.S.P.H., Ph.D.)
Epidemiology and Biostatistics (Ph.D.)
Executive Program for Health Professionals (M.P.H.)
Executive Program for MBA Physicians (M.P.H.)
Global Health (M.P.H.)
Health Administration (MHA) – see MHA program
Health Care Organizations and Management (M.P.H.,
M.S.P.H., Ph.D.)
Health Policies and Programs (M.P.H., M.S.P.H., Ph.D.)
Health Policy and Management (M.S.P.H., Ph.D.)
Industrial Hygiene (M.P.H., M.S.P.H., Ph.D.)
International Health Management (M.P.H., M.S.P.H.,
Ph.D.)
Managed Care (M.P.H.)
Maternal & Child Health (M.P.H., M.S.P.H., Ph.D.)
Occupational Health (M.P.H., M.S.P.H.)
Occupational Health for Health Professionals (Ph.D.)
Occupational Medicine Residency (M.P.H., M.S.P.H.)
Public Health Education (M.P.H., M.S.P.H., Ph.D.)
Public Health Practice (M.P.H.)*
Social and Behavioral Science (M.S.P.H., Ph.D.)
Toxicology (M.P.H., M.S.P.H., Ph.D.)
Tropical /Communicable Diseases (M.P.H., M.S.P.H.,
Ph.D.)

* The MPH in Public Health Practice has an entry
requirement of a minimum of three years of experience. It
is offered in a distance learning format, traditional format,
as well as a Weekend MPH.

PROGRAM INFORMATION
The base of knowledge for public health comes from a
variety of disciplines, ranging from social sciences to
biological sciences and business, brought together by a
commitment to improve the public’s health. Thus, the field
of public health is broad and is open to students from
diverse academic disciplines including Health Sciences,
Education, Engineering, Business, Communications,
Mathematics, Social and Natural Sciences. Graduates are
prepared for interdisciplinary focused public health
professional careers as administrators, managers,
educators, researchers, and direct service providers.

CONTACT INFORMATION
Program Director: Magdalene Argiry
Other Contact: n/a
Phone: 813-974-3623
Fax: 813-974-8121
Email: advisor@hsc.usf.edu
Web Address:
http://www.publichealth.usf.edu/
Mailing Address:
University of South Florida
Public Health
Public Health Program
13201 Bruce B. Downs Boulevard, MDC 56
Tampa, FL 33612

Also offered as:
*Public Health and Anthropology (MPH/MA or PhD)
offered in the following concentrations:
Epidemiology
Global Health
Environmental Health
Tropical Public Health / Communicable Disease
Public Health Education
Maternal and Child Health
Healthcare Organizations and Management

*Public Health and Medicine (MPH / MD) for already
enrolled USF College of Medicine Students

*Public Health and Social Work (MPH / MSW)
offered in the following concentrations:
Behavioral Health
Maternal and Child Health

*Public Health (Occupational Health) and Nursing /
Adult Nurse Practitioner (MPH / MS)

*Public Health and Biochemistry / Molecular Biology
(MPH / PhD) offered in the following concentrations:
Epidemiology
Environmental Health
Toxicology and Risk Assessment
Tropical Public Health

Program Status: Active
The College’s four departments are: Community and Family Health, Environmental and Occupational Health, Epidemiology and Biostatistics, and Health Policy and Management. In addition, there are two College-wide programs: Public Health Practice and Global Health. Core content is directly related to addressing and meeting public health issues. Off campus programs may reflect additional offerings to meet specific needs. The College accommodates the working professional as well as the full-time student by offering late afternoon and evening classes and state-of-the-art distance learning through satellite delivery at numerous sites throughout the state and selected U.S. and international sites, web delivery of courses and certificates, and weekend M.P.H. for experienced Health Care professionals.

Accreditation:
Accredited by the Commission on Colleges of the Southern Association of College and Schools. The College is fully accredited by the Council on Education in Public Health and the Accreditation Board for Engineering and Technology.

Major Research Areas:
Faculty major research areas are listed at: http://publichealth.usf.edu/facultyprofile.html

Community and Family Health – http://publichealth.usf.edu/cfh/
Adolescent health risk taking behavior, Community-based prevention marketing, Health literacy, Health issues of developing countries, Family violence, Injury control and prevention, Effects of the infant environment on health and development, Social determinants of family health status.

Environmental and Occupational Health – http://publichealth.usf.edu/eoh/

Epidemiology and Biostatistics – http://publichealth.usf.edu/epb/

Health Policy and Management – http://publichealth.usf.edu/hpm/
Financial management, Health economics, Quantitative methods in health services, health insurance, Health law, Health information management, Organizational model and principles applied to health settings, Quality and performance improvement, Health policy and policy analysis, Strategic planning and marketing.

ADMISSION INFORMATION
Program may have additional requirements; check before applying.

DEGREE PROGRAM REQUIREMENTS:
For information on program requirements, refer to the college website: www.publichealth.usf.edu

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

OTHER INFORMATION:
N/a
# Reading Education Program

**M.A.**

## DEGREE INFORMATION

**Type of Degree Offered:**
Master of Arts - M.A.

**Concentrations Offered:**
n/a

**Also offered as:**
a specialization/concentration under Curriculum and Instruction (Ed.S., Ph.D.).

**Also offered at USF-St. Petersburg**

**Program Status:**
Active

## CONTACT INFORMATION

**Program Director:**
Barry Morris

**Other Contact:**
n/a

**Phone:**
813-974-0590

**Fax:**
n/a

**Email:**
n/a

**Web Address:**
[http://www.coedu.usf.edu/clar/grad06.html](http://www.coedu.usf.edu/clar/grad06.html)

**Mailing Address:**
University of South Florida
Childhood Education
Reading Education Program
4202 E. Fowler Avenue, EDU162
Tampa, FL 33620

## PROGRAM INFORMATION

This degree is designed to prepare special reading teachers, clinicians, supervisors, directors, and coordinators of reading for school systems.

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

**Major Research Areas:**
n/a

## ADMISSION INFORMATION

Program may have additional requirements; check before applying.

## DEGREE PROGRAM REQUIREMENTS:

Program of Study 30 hours minimum
EDF 6481 Process Core 3 hours
LAE 6316 Trends in Literature in a Diverse Society 3 hours

Concentration 21 hours minimum

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<th>Course Code</th>
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<td>RED 6846</td>
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<td>LAE 6315</td>
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</tbody>
</table>

**Comprehensive Examination**

Selective retention policies require students to maintain a “B” average, with no more than three hours of “C” work in the major area courses (all Reading Education [RED] and Language Arts Education [LAE] courses) and a total of no more than 6 hours of “C” work in the program. If either of these requirements is not met, the student will be dropped from the program. Reinstatement may occur when the student retakes one of the courses in which a “C” grade was earned and receives an “A” grade. A Plan III option is available for non-certified students. Plan III students do not earn certification; this option is usually open only to college teachers.

**COURSES:**
See [http://www.ugs.usf.edu/sab/sabs.cfm](http://www.ugs.usf.edu/sab/sabs.cfm)

**OTHER INFORMATION:**

N/a
Rehabilitation and Mental Health Counseling Program
M.A.

DEGREE INFORMATION

Type of Degree Offered:
Master of Arts - M.A.

Concentrations Offered:
Addictions and Substance Abuse Counseling (approved May 2003)
Marriage and Family Therapy (approved May 2003)

Also offered as:
5-year program

Program Status: Active

CONTACT INFORMATION

Program Director: Charlotte Dixon
Other Contact: n/a
Phone: 813-974-2855
Fax: 813-974-8080
Email: rehgrad@chuma1.cas.usf.edu
Web Address: http://www.cas.usf.edu/rehab_counseling/index.html

Mailing Address:
University of South Florida
Rehabilitation and Mental Health Counseling
Rehabilitation and Mental Health Counseling Program
4202 E. Fowler Avenue, SOC107
Tampa, FL 33620

PROGRAM INFORMATION

The Department of Rehabilitation and Mental Health Counseling trains counselors to work with physically, mentally, emotionally, and chemically disabled individuals. Training emphasizes psychological, social, medical, and vocational aspects of disability, and also the development and refinement of personal adjustment counseling skills. Graduates with this M.A. are prepared for careers as both rehabilitation specialists and mental health counselors.

The Department offers only the M.A. degree. Most students are admitted after earning a baccalaureate degree in one of the behavioral, social, health-related, or educational disciplines (REH). A Five-Year Program (REF) is available to undergraduates with strong academic credentials, and undergraduates interested in this program should contact the department during their sophomore year. The Department offers areas of concentration: one in Addictions and Substance Abuse Counseling and a second in Marriage and Family Therapy. Each student may elect to pursue a program of specialization in either area. The Addictions and Substance Abuse counseling program is approved by the Certification Board for Addictions Professionals of Florida (CBAPF Approved Provider #179A).

The graduate program in Rehabilitation and Mental Health Counseling is fully accredited by the Council of Rehabilitation Education (CORE). Upon completion of the program, graduates are eligible to sit for the national examination to become a Certified Rehabilitation Counselor (CRC). With additional course work and 3 years’ experience, graduates are also eligible to take the examination for state licensure as a Mental Health Counselor. For a complete description of the department and its program, visit the department’s Web page at: http://www.cas.usf.edu/rehab_counseling/index.html

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

Major Research Areas:
n/a

ADMISSION INFORMATION

Program may have additional requirements; check before applying.

DEGREE PROGRAM REQUIREMENTS:
The department offers both a thesis and a non-thesis program. There is no language requirement; however, a comprehensive examination is required of all students.

The following 54-hour core curriculum is consistent with national certification standards for rehabilitation counselors and must be taken by all students (post-baccalaureate, five-year, thesis, and non-thesis).

RCS 5080 (3) RCS 5020 (3) RCS 5780 (3) RCS 6220 (3) RCS 6300 (3) RCS 6407 (3) RCS 6408(3)
RCS 6440 (3) RCS 6740 (3) RCS 6825 (3) RCS 6803 (6) RCS 5480 (3) RCS 5450 (3) RCS 6510 (3)
RCS 6930 (6) RCS 5035 (3)

Non-Thesis
Students in the non-thesis program must complete a minimum of 60 hours in the Post-Baccalaureate Program (REH) and 150 hours in the Five-Year Program (REF).
Electives may be taken from Rehabilitation and Mental Health Counseling offerings or from offerings outside the department with the consent of an advisor.

**Thesis**

All students are initially admitted to the non-thesis program. Admitted students may subsequently apply to the faculty for a thesis program. Students in a thesis program must complete a minimum of 60 hours in the Post-Baccalaureate Program (54-hr.) core curriculum plus a minimum of 3 hours of RCS 6970), and no less than 150 hours in the Five-Year Program (including 54-hour core curriculum plus 3 hours of RCS 6970).

Additional hours to complete the minimum of 150 hours for students in the Five-Year Program may be elected from other Rehabilitation and Mental Health Counseling offerings or from related programs with the consent of the advisor. An oral defense of the thesis is required.

**COURSES:**
See [http://www.ugs.usf.edu/sab/sabs.cfm](http://www.ugs.usf.edu/sab/sabs.cfm)

**OTHER INFORMATION:**
N/a
Religious Studies Program
M.A.

DEGREE INFORMATION

Type of Degree Offered:
Master of Arts - M.A.

Concentrations Offered:
n/a

Also offered as:
a dual degree in the M.A. in Religious Studies and Education

Program Status: Active

CONTACT INFORMATION

Program Director: James F. Strange
Other Contact: n/a
Phone: 813-974-1845
Fax: 813-974-1853
Email: strange@chuma1.cas.usf.edu
Web Address: http://zulu.cas.usf.edu/Rel/

Mailing Address:
University of South Florida
Religious Studies
Religious Studies Program
4202 E. Fowler Avenue, CPR107
Tampa, FL 33620

PROGRAM INFORMATION

The M.A. degree in Religious Studies provides opportunities for students with backgrounds in the scholarly study of religion to expand their knowledge of the social, cultural, and historical contexts of religion, to develop a greater in-depth knowledge of particular religious traditions, and to acquire proficiency with a wide variety of pertinent methodologies and theoretical perspectives. This degree serves the needs of students interested in teaching or counseling. It will be of special value to those interested in pursuing a doctorate in religious studies. For those interested in pre-collegiate level teaching, a dual degree in the M.A. in Religious Studies and M.A. in Education is available.

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

Major Research Areas:

ADMISSION INFORMATION

Program may have additional requirements; check before applying.

DEGREE PROGRAM REQUIREMENTS:
Students select a major professor and develop a plan for completing a minimum of 36 credit hours, including a 6-credit thesis project. The plan of study is subject to approval of the Graduate Committee. A majority of these courses will be in religious studies, although the plan may include approved courses in other departments. No more than 6 credit hours of 4000-level courses may be counted for graduate credit. There is no uniform language requirement; however, language skills may be required for particular areas of study. All students are required to demonstrate expertise in at least two religious traditions, as well as satisfactorily complete a written, comprehensive examination wherein they demonstrate competence in: 1) pertinent theoretical issues and research methodologies; 2) the analysis and interpretation of related texts, artifacts, and activities; and 3) social and historical contexts of the religions studied.

The Department of Religious Studies “Graduate Student Handbook” should be consulted for additional information about basic requirements and specific procedures.

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

OTHER INFORMATION:
N/a
School Psychology Program
M.A.

DEGREE INFORMATION
Type of Degree Offered:
Master of Arts - M.A.

Concentrations Offered:
n/a

Also offered as:
a Specialization/Concentration under Curriculum and Instruction (Ed.S., Ph.D.)

Program Status: Active

CONTACT INFORMATION
Program Director: George Batsche
Other Contact: n/a
Phone: 813-974-3246
Fax: n/a
Email: n/a
Web Address: http://www.coedu.usf.edu/deptpsysoe/

Mailing Address:
University of South Florida
Psychological and Social Foundations
School Psychology Program
4202 E. Fowler Avenue, EDU162
Tampa, FL 33620

PROGRAM INFORMATION
The School Psychology program is a limited access program. This means that only a limited number of students are able to be accepted each year. It is also a direct receipt program. Please check with the program for specific information.

The School Psychology Program offers two degrees that qualify students for the professional practice of school psychology. School Psychology is offered as a concentration (a.k.a. specialization) under the Ed.S. Curriculum and Instruction degree program.

The Educational Specialist (Ed.S.) degree consists of approximately 92 graduate semester hours beyond the bachelor’s degree, and includes two years of practica experiences and then a full-year, 1,500 clock hour internship and a thesis or Research Project.

The Doctor of Philosophy (Ph.D.) degree consists of approximately 64 semester hours beyond the Ed.S. degree and includes advanced leadership coursework and practica experiences, Concentration (a.k.a. specialization) and area of emphasis courses in school psychology, a 2,000 clock hour internship, and the dissertation. A Master of Arts (M.A.) degree is earned by most students during the first year of their Ed.S. program. However, the M.A. is not considered a terminal degree and is not sufficient for state certification in school psychology.

The programs in School Psychology at the University of South Florida are offered through the College of Education’s Department of Psychological and Social Foundations in cooperation with the College of Arts and Sciences’ Department of Psychology. The programs have been designed specifically for training in school psychology, and they have been developed to meet all relevant national accreditation standards. The Ph.D. program is fully accredited by the American Psychological Association. The Ed.S. and Ph.D. programs are fully approved by the National Association of School Psychologists and the Florida Department of Education. Students who complete the School Psychology Training Program at USF automatically meet the academic and field training requirements for certification as a Nationally Certified School Psychologist (N.C.S.P.).

The programs in School Psychology are committed to training professionals who have expertise in the depth and diversity of both psychology and education. This training is accomplished within a scientist-practitioner model that emphasizes comprehensive school psychological services using a social and cognitive behavioral learning theory orientation that recognizes the impact of children’s individual differences and the importance of multicultural awareness and skills. The program also offers professional development opportunities for practitioners in the field.

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

Major Research Areas:
n/a

ADMISSION INFORMATION
Program may have additional requirements; check before applying.

DEGREE PROGRAM REQUIREMENTS:
Contact program for specific information.

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

OTHER INFORMATION: N/a
# School Psychology Program

## Ph.D.

### DEGREE INFORMATION

**Type of Degree Offered:**
Doctor of Philosophy - Ph.D.

**Concentrations Offered:**
n/a

**Also offered as:**
a Specialization/Concentration under Curriculum and Instruction (Ed.S., Ph.D.)

**Program Status:**
Active

### CONTACT INFORMATION

**Program Director:** George Batsche

**Other Contact:** n/a

**Phone:** 813-974-3246

**Fax:** n/a

**Email:** n/a

**Web Address:** [http://www.coedu.usf.edu/deptpsysoc/](http://www.coedu.usf.edu/deptpsysoc/)

**Mailing Address:**
University of South Florida
Psychological and Soc. Foundations
School Psychology Program
4202 E. Fowler Avenue, EDU162
Tampa, FL 33620

### PROGRAM INFORMATION

The School Psychology program is a limited access program. This means that only a limited number of students are able to be accepted each year. It is also a direct receipt program. Please check with the program for specific information.

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The programs in School Psychology are committed to training professionals who have expertise in the depth and diversity of both psychology and education. This training is accomplished within a scientist-practitioner model that emphasizes comprehensive school psychological services using a social and cognitive behavioral learning theory orientation that recognizes the impact of children’s individual differences and the importance of multicultural awareness and skills. The program also offers professional development opportunities for practitioners in the field.

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

**Major Research Areas:**
n/a

### ADMISSION INFORMATION

Program may have additional requirements; check before applying.

### DEGREE PROGRAM REQUIREMENTS:

The Ph.D. program consists of a minimum of 114 credit hours beyond the Master’s degree. Students in the Ed.S. program in Curriculum and Instruction with a concentration in School Psychology will be allowed to use up to 12 semester hours of USF credit earned during the first year of their Ed.S. program toward the Ph.D. They
also may incorporate coursework from the second and third years of their Ed.S. program (assuming it is post-Master’s) into the Ph.D. program of studies. Other students who have taken graduate level courses as special students at USF will be allowed to transfer up to 12 semester hours as approved by the Program Faculty. Finally, students from other institutions will be allowed to transfer in 8 graduate semester hours (or three courses) again as approved by the Program Faculty.

In addition to admitting students at the Post-Baccalaureate Level, the USF School Psychology program admits Ph.D. students who have already earned an Ed.S. or the equivalent and are certified as school psychologists and/or who are looking for advanced doctoral study in the field. These advanced students take advanced leadership, concentration, statistics/research methods, an area of emphasis within the broader school psychology curriculum, and additional practicum experiences, all allowing for more in-depth study of content and issues in our field. A doctoral level internship (2000 hours) must be completed by all doctoral students.

Full-time study is required of most Ph.D. students at least until they complete all coursework and Qualifying Exams and have only the dissertation to complete. Minimally, this will involve three years of full-time study after the M.A. degree. Full-time study involves a minimum of 9 semester hours of coursework per semester. Residency involves consecutive academic years of full-time study; students are allowed assistantship work or a part-time job up to 20 hours per week during residency. Students working in psychology-related positions outside of the University must have these positions approved in advance to ensure practice within all appropriate ethical guidelines. The Program's Coordinator must be notified in writing of all gainful employment engaged in by students throughout their studies when that employment exceeds six hours per week. A part-time Ph.D. option is available for selected students; more information on this option is available from the program Coordinator.

Program of Study
The Ed.S. degree curriculum forms a foundation for the Ph.D. The following outline represents a typical program for a student without prior graduate work. Other courses may be selected to fit background and goals, and equivalent work is acceptable. Minor changes may be made due to routine program development.

Academic/Theoretical Bases
Developmental Psychology 4 hours - EDF 6938 or EDF 6120 or DEP 6058*

Learning and Cognitive Psychology 8 hours - EDF 6215 and EDF 6217
Personality and Abnormal Psychology 4 hours - SPS 6101
Social Psychology 2-4 hours - EDF 6938 or SOP 6059*
Biological Bases of Behavior 3 hours - EDF 6213
Statistics, Measurement, and Professional Research 8 hours - EDF 6407 and EDF 7410
Professional School Psychology 37 hours SPS 6197 SPS 6198 SPS 6943 SPS 6944 SPS 6936 SPS 6700 CSP SPS 6702 CSP SPS 6940 SPS 6941 EDF 6166 SPS 6196
Social/Multicultural/Organizational Foundations of Ed 4 hours - EDF 6883
Curriculum/Instructional Design 3 hours
Instructional Design EDF 6288
Thesis -- SPS 6971 9 hours
Internship 12 hours
Electives--Selected courses in the Counselor Education, Special Education, and Reading Education programs and in the Department of Psychology.
Comprehensive Examination
* Offered in the Department of Psychology

Ph.D. Program additionally includes:
A full-year advanced professional seminar (SPS 7936)
Advanced coursework in Statistical Analysis (EDF 7408, EDF 7484)
Courses in an area of Emphasis (e.g., SPS 7199, SPS 7701)
Advanced Supervision (SPS 7900)
Consultation (SPS 7205)
Behavioral Intervention (SPS 7700)
Advanced psychological foundations course (e.g., EDF 7145)
Advanced practicum and 2,000 clock hour advanced internship
Doctoral Internship (2000 hours)
Dissertation (SPS 7980)

At this level, emphasis is on research and on training for leadership positions in school psychology.

Dissertation, Residency, and Qualifying Examination
Refer to College for information.

Please be advised that program and/or course requirements are subject to change, per state legislative mandates, Florida Department of Education program approval standards, and accreditation criteria

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

OTHER INFORMATION:
N/a
Science Education Program
M.A.

DEGREE INFORMATION

Type of Degree Offered:
Master of Arts - M.A.

Concentrations Offered:
Biology
Chemistry
Physics

Also offered as:
a Specialization/Concentration under Curriculum and Instruction (M.Ed., Ed.S., Ph.D.). The program offers a variety of specialized coursework, qualifying exams and research experiences scholarly crafted to fulfill the interests of most students. Contact the program faculty before applying to the Ph.D. program.

Program Status: Active

CONTACT INFORMATION

Program Director: Dana L. Zeidler
Other Contact: n/a
Phone: 813-974-7305
Fax: 813-974-3837
Email: zeidler@tempest.coedu.usf.edu
Web Address: http://www.coedu.usf.edu/seced/ScienceEd/default.h

Mailing Address:
University of South Florida
Secondary Education
Science Education Program
4202 E. Fowler Ave, EDU162
Tampa, FL 33620

PROGRAM INFORMATION

Plan I - is a program of graduate study designed for those with initial certification in the area of specialization (typically with a baccalaureate degree from a college of education) who desire to increase their competence in the subject specialization. It is an individually planned program of study in consultation with a departmental advisor depending on the student’s interests and needs.

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

Major Research Areas:
n/a

ADMISSION INFORMATION

Program may have additional requirements; check before applying.

DEGREE PROGRAM REQUIREMENTS:

Plan I - is a program of graduate study designed for those with initial certification in the area of specialization (typically with a baccalaureate degree from a college of education) who desire to increase their competence in the subject specialization. It is an individually planned program of study in consultation with a departmental advisor depending on the student’s interests and needs.

Program of Study – 33 hours minimum
A. Process Core 12 hours
EDF 6432 EDF 6211 or EDF 6215
EDF 6517 or EDF 6544 or EDF 6606
EDF 6481 or an equivalent research methods course.

B. Current Trends in Science Education (SCE 6634) 3 hours
C. Specialization (a.k.a. Concentration) 18 hours minimum – courses to be taken in the College of Arts and Sciences based on the prior background and interests of the student.
D. Comprehensive examination

Plan II – The MA Plan II degree is for individuals with a bachelor’s degree in a field other than education that wish to become certified teachers in science education at the middle or senior high school level. This program leads to teaching certification in grade 6-12 science education as part of the master’s degree program. For the general program structure, admission and program requirements, refer to the College of Education listing or contact the program.

Program Requirements
Program of Study: 63 hours minimum
A. Process Core 15-16 hours
EDF 6432
EDF 6211 or EDF 6215
EDF 6481
EDF 6517 or EDF 6544 or EDF 6606
EDG 6627* (*students may take EDG 4620 in lieu of EDG 6627)
B. ESE 5344 Classroom Management 3 hours
C. FLE 5365 ESOL Competencies and Strategies 3 hours
D. Professional Science Education Courses 18 hours
SCE 4305 Reading and communication in Science Education (3)
SCE 4320 Methods Middle School Science (3)
SCE 4330 Methods Secondary School Science (3)
SCE 6737 STS (3)
SCE 6634 Current Trends in Science Education (3)
(Any course substitutions must be approved by the Program Coordinator)

E. Specialization 18 hours minimum (Courses taken in the College of Arts and Sciences)

F. Internship 6 hours – for further information, access www.coedu.usf.edu/sas

G. Comprehensive examination

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

OTHER INFORMATION:
Please be advised that program and/or course requirements are subject to change, per state legislative mandates, Florida Department of Education program approval standards, and accreditation criteria
Science Education Program
M.A.T.

DEGREE INFORMATION

Type of Degree Offered:
Master of Arts in Teaching - M.A.T.

Concentrations Offered:
n/a

Also offered as:
n/a

Program Status: Active

CONTACT INFORMATION

Program Director: Dana L. Zeidler
Other Contact: n/a
Phone: 813-974-7305
Fax: 813-974-3837
Email: zeilder@tempest.coedu.usf.edu
Web Address: http://www.coedu.usf.edu/seced/ScienceEd/default.h

Mailing Address:
University of South Florida
Secondary Education
Science Education Program
4202 E. Fowler Ave, EDU162
Tampa, FL 33620

PROGRAM INFORMATION

This program is currently under development and is not an option at this time. Please consult the science education website for information.

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

Major Research Areas:
n/a
ADMISSION INFORMATION
Program may have additional requirements; check before applying.

DEGREE PROGRAM REQUIREMENTS:
n/a

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

OTHER INFORMATION:
Please be advised that program and/or course requirements are subject to change, per state legislative mandates, Florida Department of Education program approval standards, and accreditation criteria.
Second Language Acquisitions and Instructional Technology Program
Ph.D.

**DEGREE INFORMATION**

**Type of Degree Offered:**
Doctor of Philosophy - Ph.D.

**Concentrations Offered:**
n/a

**Also offered as:**
n/a

**Program Status:**

<table>
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<th>CONTACT INFORMATION</th>
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</table>
| **Program Directors:** Carine Feyten,  
College of Education  
and  
Jeffra Flaitz,  
College of Arts and Sciences |
| **Other Contact:** Phone: 813-974-3533 |
| **Fax:** |
| **Email:** feyten@usf.edu |
| **Web Address:** [http://www.coedu.usf.edu/IT/PhD/phd1.html](http://www.coedu.usf.edu/IT/PhD/phd1.html) |
| **Mailing Address:** University of South Florida  
Secondary Education  
Second Language Acquisitions and Instructional Tec Program  
4202 E. Fowler Avenue, EDU162  
Tampa, FL  33620 |

**PROGRAM INFORMATION**

This is an interdisciplinary program between the College of Education and the College of Arts and Sciences and combines the expertise of both faculties to provide a curriculum in statistics, research design, pedagogy, world language education, second language acquisition, sociolinguistics, socio-cultural theory, and instructional technology. The goal of the program is to prepare students for careers in academia.

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

**Major Research Areas:**
Second Language Acquisition, Instructional Technology, Foreign Language Education, Distance Learning.

**ADMISSION INFORMATION**

Program may have additional requirements; check before applying.

**DEGREE PROGRAM REQUIREMENTS:**

- 75 credit hours - core courses (45-46 semester hours); electives 9-12 semester hours; dissertation (18 semester hours)

- **COURSES:**
  See [http://www.ugs.usf.edu/sab/sabs.cfm](http://www.ugs.usf.edu/sab/sabs.cfm)

- **OTHER INFORMATION:**
  Please be advised that program and/or course requirements are subject to change, per state legislative mandates, Florida Department of Education program approval standards, and accreditation criteria.
Social Science Education Program
M.A.

DEGREE INFORMATION

Type of Degree Offered: Master of Arts - M.A.

Concentrations Offered: n/a

Also offered as: a Specialization/Concentration under Curriculum and Instruction (M.Ed.)

Program Status: Active

CONTACT INFORMATION

Program Director: Barbara C. Cruz
Other Contact: 
Phone: 813-974-3533
Fax: 813-974-3837
Email: cruz@tempest.coedu.usf.edu
Web Address: http://www.coedu.usf.edu/deptseced/socscied/

Mailing Address:
University of South Florida
Secondary Education
Social Science Education Program
4202 E. Fowler Ave., EDU162
Tampa, FL 33620

PROGRAM INFORMATION

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

Major Research Areas:
N/a

ADMISSION INFORMATION

Program may have additional requirements; check before applying.

DEGREE PROGRAM REQUIREMENTS:

Plan I. This program is designed for teachers certified in social sciences education, typically with a baccalaureate degree from a college of education. It is an individually planned program based on a student’s background and professional goals.

Program Requirements
Program of Study 30 hours minimum
Process Core 3 hrs.
Current Trends in Social Science Education (SSE 6636) 3 hours
Social Science Education Special Topics (SSE 6932) 6 hours
Concentration (a.k.a. specialization) 18 hours minimum
Courses taken in the College of Arts and Sciences
Comprehensive examination

Plan II. The MA Plan II degree is for individuals with a bachelor's degree in a field other than education who wish to become a certified teacher in social science at the middle or senior high school level. This program leads to teaching certification in grade 6-12 social sciences as part of the master’s degree program.

Program Requirements
In addition to the graduate coursework listed below, students must take the following undergraduate social science methods courses to satisfy teacher certification requirements: SSE 5331, SSE 5332, SSE 5641, ESE 5332, ESE 5344, FLE 5365, and SSE 4335.

Program of Study 57 hours minimum
Process Core 15-16 hrs.
EDF 6432 EDF 6211 or EDF 6215
EDF 6481 EDF 6517 or EDF 6544 or EDF 6606
EDG 6627*(Students may take EDG 4620 in lieu of EDG 6627)
Current Trends in Social Science Education (SSE 6636) 3 hours
Concentration (a.k.a. Specialization) 18 hours minimum
Courses taken in the College of Arts and Sciences
Internship 6 hours
Comprehensive examination

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

OTHER INFORMATION:
N/a
Social Science Education Program
M.A.T.

DEGREE INFORMATION
Type of Degree Offered:
Master of Arts in Teaching - M.A.T.

Concentrations Offered:
n/a

Also offered as:
a Specialization/Concentration under Curriculum and Instruction (M.Ed.)

Program Status:

CONTACT INFORMATION
Program Director: Barbara C. Cruz
Phone: 813-974-3533
Fax: 813-974-3837
Email: cruz@tempest.coedu.usf.edu
Web Address: http://www.coedu.usf.edu/deptseced/socsciied/

Mailing Address:
University of South Florida
Secondary Education
Social Science Education Program
4202 E. Fowler Ave., EDU162
Tampa, FL 33620

PROGRAM INFORMATION
The MAT degree is for individuals with a bachelor's degree in a field other than education who wish to become a certified teacher in social studies at the middle or senior high school level. This program leads to teaching certification in grade 6-12 social sciences as part of the master's degree program. For the general program structure, admission and program requirements, refer to the College of Education listing or contact the program.

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

Major Research Areas:
n/a

ADMISSION INFORMATION
Program may have additional requirements; check before applying.

DEGREE PROGRAM REQUIREMENTS:
Program of Study 39 hours minimum
Process Core

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

OTHER INFORMATION:
Please be advised that program and/or course requirements are subject to change, per state legislative mandates, Florida Department of Education program approval standards, and accreditation criteria.
Social Work Program
M.S.W.

DEGREE INFORMATION

Type of Degree Offered:
Master of Social Work - M.S.W.

Concentrations Offered:
n/a

Also offered as:
Dual Degree – M.S.W./M.P.H.

Program Status: Active

CONTACT INFORMATION

Program Director: Bill Rowe
Other Contact: 
Phone: 813-974-2063
Fax: 813-974-4675
Email: sokoffic@chuma1.cas.usf.edu
Web Address: http://www.cas.usf.edu/social_work/

Mailing Address:
University of South Florida
School of Social Work
Social Work Program
4202 E. Fowler Avenue, MGY132
Tampa, FL 33620

PROGRAM INFORMATION

The School of Social Work offers a program leading to a Master of Social Work (M.S.W.) degree. The program is fully accredited by the Council on Social Work Education. A dual-degree program is available with Public Health/Maternal and Child Health. A certificate is offered in Clinical Gerontology and Marriage and Family Therapy.

The primary objective of the program is preparation of the graduate for professional social work practice through acquisition of specialized knowledge and skills necessary for clinical practice with individuals, families, and groups.

The secondary objectives of the M.S.W. program are:

1) to prepare students academically for pursuit of doctoral education in social work or related human service disciplines or professions;

2) to contribute to the needed supply of professionally educated clinical social workers in the Tampa Bay area, the state, the region, and the nation.

The M.S.W. program offers a specialized course of study in direct clinical practice. The program offers students a core curriculum, plus electives, and a supervised field experience designed to produce professionals with individual, family, and group practice skills. The M.S.W. program is designed to produce specific competencies for clinical practice. Graduates of the M.S.W. program should demonstrate:

1) practice competency in relationship skills;

2) knowledge of the interrelationships in the biological, psychological, and sociocultural factors in human life, including the impact of disease, injury, and emotional distress and their implications for social work practice;

3) skill in methods of scientific inquiry for the purpose of advancing professional knowledge and practice;

4) basic skill in the application of a range of social work treatment methodologies for the purpose of differential diagnosis and intervention;

5) practice competency in applying a biopsychosocial approach to the assessment of human problems;

6) practice competency in applying a biopsychosocial approach to treatment of human problems through individual, family, and group modalities;

7) a basic knowledge of managerial processes in social services, including program planning, personnel management, finance, and evaluation.

The M.S.W. program places great emphasis on standards of professional behavior and ethics in the practice of social work. Entrance into the MSW program does not guarantee graduation from the program. Students admitted to the M.S.W. program must maintain a minimum GPA of 3.0, in all social work courses, with no grade below “C” counting toward graduation. Failure to maintain the specified GPA or to exhibit responsible professional behavior determined by the School may result in suspension or dismissal from the program. Courses with grades below “C” must be repeated before progressing to the next sequence. Students must pass the comprehensive exam during the last semester in order to graduate from the program.

Students may pursue the M.S.W. program on either a full- or part-time basis. Both programs consist of 60 semester hours of study. Students should check directly with the School of Social Work for applications and timelines. The full-time program takes four semesters to complete; the part-time program lasts for 10 semesters. Students with recently earned B.S.W. degrees from programs accredited by the Council on Social Work Education may apply for advanced standing and be exempt from up to 12 hours of foundation coursework, thus enabling them to graduate with 48 credit hours. Both the full- and part-time programs are heavily sequenced and students must stay in sequence. All students must obtain professional liability insurance prior to enrollment in field.
Accreditation:
Accredited by the Commission on Colleges of the Southern Association of College and Schools.

Major Research Areas:
n/a

ADMISSION INFORMATION
Program may have additional requirements; check before applying.

DEGREE PROGRAM REQUIREMENTS:
n/a

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

OTHER INFORMATION:
N/a
Social Work Program
M.S.W.

DEGREE INFORMATION

Type of Degree Offered:
Master of Social Work - M.S.W.

Concentrations Offered:
n/a

Also offered as:
Dual Degree - M.S.W./M.P.H.

Program Status: Active

CONTACT INFORMATION

Program Director: Bill Rowe
Other Contact: Phone: 813-974-2063
Fax: 813-974-4675
Email: sokoffic@chuma1.cas.usf.edu
Web Address: http://www.cas.usf.edu/social_work/

Mailing Address:
University of South Florida
Social Work
Social Work Program
4202 E. Fowler Avenue, MGY132
Tampa, FL 33620

PROGRAM INFORMATION

The School of Social Work offers a program leading to a Master of Social Work (M.S.W.) degree. The program is fully accredited by the Council on Social Work Education. A dual-degree program is available with Public Health/Maternal and Child Health. A certificate is offered in Clinical Gerontology and Marriage and Family Therapy.

The primary objective of the program is preparation of the graduate for professional social work practice through acquisition of specialized knowledge and skills necessary for clinical practice with individuals, families, and groups. The secondary objectives of the M.S.W. program are:

1) to prepare students academically for pursuit of doctoral education in social work or related human service disciplines or professions;
2) to contribute to the needed supply of professionally educated clinical social workers in the Tampa Bay area, the state, the region, and the nation.

The M.S.W. program offers a specialized course of study in direct clinical practice. The program offers students a core curriculum, plus electives, and a supervised field experience designed to produce professionals with individual, family, and group practice skills. The M.S.W. program is designed to produce specific competencies for clinical practice. Graduates of the M.S.W. program should demonstrate:

1) practice competency in relationship skills;
2) knowledge of the interrelationships in the biological, psychological, and sociocultural factors in human life, including the impact of disease, injury, and emotional distress and their implications for social work practice;
3) skill in methods of scientific inquiry for the purpose of advancing professional knowledge and practice;
4) basic skill in the application of a range of social work treatment methodologies for the purpose of differential diagnosis and intervention;
5) practice competency in applying a biopsychosocial approach to the assessment of human problems;
6) practice competency in applying a biopsychosocial approach to treatment of human problems through individual, family, and group modalities;
7) a basic knowledge of managerial processes in social services, including program planning, personnel management, finance, and evaluation.

The M.S.W. program places great emphasis on standards of professional behavior and ethics in the practice of social work. Entrance into the MSW program does not guarantee graduation from the program. Students admitted to the M.S.W. program must maintain a minimum GPA of 3.0, in all social work courses, with no grade below “C” counting toward graduation. Failure to maintain the specified GPA or to exhibit responsible professional behavior determined by the School may result in suspension or dismissal from the program. Courses with grades below “C” must be repeated before progressing to the next sequence. Students must pass the comprehensive exam during the last semester in order to graduate from the program.

Students may pursue the M.S.W. program on either a full- or part-time basis. Both programs consist of 60 semester hours of study. Students should check directly with the School of Social Work for applications and timelines. The full-time program takes four semesters to complete; the part-time program lasts for 10 semesters. Students with recently earned B.S.W. degrees from programs accredited by the Council on Social Work Education may apply for advanced standing and be exempt from up to 12 hours of foundational coursework, thus enabling them to graduate with 48 credit hours. Both the full- and part-time programs are heavily sequenced and students must stay in sequence. All students must obtain professional liability insurance prior to enrollment in field courses.
Accreditation:
Accredited by the Commission on Colleges of the Southern Association of College and Schools.

Major Research Areas:
n/a

ADMISSION INFORMATION
Program may have additional admission requirements. Check before applying.

DEGREE PROGRAM REQUIREMENTS:
Program Requirements (non-B.S.W. students)
A. Human Behavior and Social Environment Courses -
   SOW 6105 (3) SOW 6114 (3) SOW 6124 (3) SOW 6126 (2)

B. Social Work Practice Courses -
   SOW 6342 (3) SOW 6305 (3) SOW 6348 (2) SOW 6362 (4) SOW 6368 (3) SOW 6375 (3)

C. Policy and Services Courses -
   SOW 6235 (3) SOW 6236 (3)

D. Social Work Research Courses -
   SOW 6405 (3) SOW 6425 (2) SOW 6426 (1) SOW 6427 (1)

E. Supervised Field Experience
   For full-time students:
   SOW 6534 (4) SOW 6535 (4) SOW 6536 (4)
   For part-time students:
   SOW 6553 (1) SOW 6555 (2) SOW 6557 (2) SOW 6559 (2) SOW 6554 (1) SOW 6556 (2) SOW 6558 (2)

F. Additional Requirements: Elective hours (6) All electives must be approved.

Summary
Foundations Courses (12 hours)
Advanced Courses (29 hours)
Field Courses (12 hours)
Electives (6 hours)
Total (60 hours)

Program Requirements (B.S.W. students eligible for Advanced Standing)
As space is available, students qualifying for admission with advanced standing can elect to begin coursework in either spring or summer semester.

A. Human Behavior and Social Environment Courses -
   SOW 6114 (3) SOW 6124 (3) SOW 6126 (2)

B. Social Work Practice Courses -
   SOW 6342 (3) SOW 6348 (2) SOW 6368 (3) SOW 6375 (3)

C. Policy and Service Courses -
   SOW 6236 (3)

D. Social Work Research Courses -
   SOW 6425 (2) SOW 6426 (1) SOW 6427 (1)

E. Supervised Field Experience -
   for full-time students:
   SOW 6534 (4) SOW 6535 (4) SOW 6536 (4)
   for part-time students:
   SOW 6553 (1) SOW 6555 (2) SOW 6557 (2) SOW 6559 (2) SOW 6554 (1) SOW 6556 (2) SOW 6558 (2)

F. Additional Requirements: Elective hours (6) All electives must be approved.

Summary
Advanced Courses (30 hours)
Field Courses (12 hours)
Electives (6 hours)
Total (48 hours)

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

OTHER INFORMATION:
N/a
Sociology Program
M.A.

DEGREE INFORMATION

Type of Degree Offered:
Master of Arts - M.A.

Concentrations Offered:
n/a

Also offered as:
n/a

Program Status: Active

CONTACT INFORMATION

Program Director: Donileen Loseke
Other Contact:
Phone: 813-974-2893
Fax: 813-974-6455
Email: pgreene@chuma1.cas.usf.edu
Web Address: http://www.cas.usf.edu/sociology/

Mailing Address:
University of South Florida
Department of Sociology
Sociology Program
4202 E. Fowler Avenue, CPR107
Tampa, FL 33620

PROGRAM INFORMATION

The Sociology M.A. program provides a foundation in a broad range of sociological theories and research methods and an opportunity for pursuing specialized interests in elective Sociology courses, courses in other departments, and thesis research. Many of our M.A. recipients continue in sociology Ph.D. programs. Others teach in secondary schools and junior colleges, are employed in mental health services and research, in human resources management, and government organizations, or work as research consultants and market analysts.

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

Major Research Areas:
Community and Identity Studies, Cultural Sociology, Social Psychology, Emotions, Family, Sex and Gender, Race/Ethnic/Minority Relations, Religion, Deviant Behavior/Social Disorganization, Science and Technology, Qualitative Methodology

ADMISSION INFORMATION
Program may have additional requirements; check before applying.

DEGREE PROGRAM REQUIREMENTS:
The Sociology department has an option of a thesis or an internship for the capstone course. Both are carried out under the supervision of faculty members. Students electing a thesis option can take 6 of the required 36 hours as the thesis hours. Students electing the internship option choose an appropriate internship site in consultation with their advisors.

Required courses for all students:
SYA 6126 (Sociology Theory)
SYA 6305 (Methods of Research)
SYA 6405 (Statistics)

The remaining 27 hours of electives must include at least 12 hours scheduled graduate courses in Sociology, no more than 6 hours of advisor-approved 4000 level courses, no more than 6 hours of SYA 6971 (thesis) or SYA 6912 (directed research) in preparation for thesis or internship. With an advisor’s approval, a student may transfer up to 6 hours of credit from another university or up to 12 hours of credit taken as a non-degree seeking student at USF. With an advisor’s approval, up to 9 hours of elective credit may be taken in a department other than Sociology.

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

OTHER INFORMATION:
N/a
Spanish Program
M.A.

DEGREE INFORMATION

Type of Degree Offered:
Master of Arts - M.A.

Concentrations Offered:
n/a

Also offered as:
n/a

Program Status: Active

CONTACT INFORMATION

Program Director: Maria Esformes
Other Contact: 
Phone: 813-974-2548
Fax: 813-974-1718
Email: esformes@chuma1.cas.usf.edu
Web Address: http://www.cas.usf.edu/languages/

Mailing Address:
University of South Florida
World Languages
Spanish Program
4202 E. Fowler Avenue, CPR 107
Tampa, FL 33620

PROGRAM INFORMATION

Contact Program for information.

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

Major Research Areas:
n/a

ADMISSION INFORMATION

Program may have additional requirements; check before applying.

DEGREE PROGRAM REQUIREMENTS:

1. Proficiency in a second foreign language.
2. Satisfactory completion of a written comprehensive examination on Spanish language, literature, and civilization. This exam is based on a reading list.
3. FOW 6805 Bibliography
4. Course work following one of the plans listed below:

Plan A 36 hours of graduate courses in Spanish. No thesis.
Plan B 36 hours, of which 27-30 graduate hours must be in one language area and 6-9 in another area/department, as approved by the Spanish Graduate Program Director. No thesis.
Plan C 27 semester hours in one language area plus a thesis, with 6 hours of SPW 6971.
Plan D 27 semester hours, with 18-21 hours of graduate-level course work in one language area and 6-9 in another area/department, as approved by the Spanish Graduate Program Director. In addition: a thesis, with 6 hours of SPW 6971.

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

OTHER INFORMATION:

Special Summer Programs Overseas
The Division of Languages and Linguistics, in cooperation with the International Affairs Center, offers several summer study programs overseas. These include study in Spain, and Costa Rica. For complete details, contact the program advisors or the International Affairs Center.
**Special Education, Behavior Disorders Program**

**M.A.**

**DEGREE INFORMATION**

Type of Degree Offered:
Master of Arts - M.A.

Concentrations Offered:
n/a

Also offered as:
a Specialization/Concentration under Educational Program Development (Ed.D.) and Curriculum and Instruction (Ph.D.)

Program Status:  Active

**CONTACT INFORMATION**

Program Director:  Betty Epanchin
Other Contact:  n/a
Phone:  813-974-3410
Fax:  n/a
Email:  n/a
Web Address:  http://www.coedu.usf.edu/college/program_information.cf
Mailing Address:
University of South Florida
Special Education
Special Education, Behavior Disorders Program
4202 E. Fowler Ave, EDU162
Tampa, FL  33620

**PROGRAM INFORMATION**

The programs of study in the Department of Special Education prepare special education leaders for work in public and private schools and in state, federal, or community settings at the master’s and doctoral levels. Specific areas of education and training include behavior disorders, gifted, mental retardation, specific learning disabilities, and varying exceptionalities. The master’s programs emphasize consultative, supervisory, and multidisciplinary skills needed by persons who wish to assume innovative leadership roles in public or private school settings. The doctoral program prepares students for research, teacher education, and leadership roles.

After admission to a program, the candidate and the department advisor together chart a program of study incorporating both core requirements and courses of specific interest to the student. All programs stress field based experiences: practica and internships. Students provide their own transportation to practicum and internship sites.

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

Major Research Areas:
n/a

**ADMISSION INFORMATION**

Program may have additional requirements; check before applying.

**DEGREE PROGRAM REQUIREMENTS:**

All Special Education programs are currently under review. Students are advised to work closely with program advisors in the department when developing their program of study.

**Plan I** - The M.A. program in special education is a 36-hour program, designed for students holding a valid Florida teaching certificate in special education. A minimum core of 24 hours is taken in special education with field work and coursework required in certification areas.

This program is delivered through a number of formats. Evening and online courses are offered during the Fall, Spring, and Summer semesters. Daytime courses are sometimes offered during the Summer. Students usually take one or two courses a semester and complete their program of study within two to four years. Students are required to take courses two of the three semesters each calendar year and they must complete their program of study within 7 years of their admission date.

Program of Study 36 hour minimum
Process Core 3 hours - EDF 6481
Current Trends in Special Education 3 hours - EEX 6939
Concentrations/Specializations 27 hours minimum
Special Education Program Core: (21 hours)
EEX 6025* EEX 6612 EEX 6222 EEX 6245 EEX 6732
EEX 5752 EEX 6248

* Not required, if equivalent course taken in undergraduate program.

Behavior Disorder Courses: (6 hours) –
EED 6215 EEX 6943
Electives 3-6 hours
Comprehensive Examination  A project is required to fulfill the comprehensive examination requirement.
For students seeking certification in Behavior Disorders, 3 to 6 hours of coursework relevant to the student’s program of study are required and must be approved by the student’s advisor. The Dual track and Plan III options are also available for students who are not certified in special education. Dual track students are required to take prerequisite courses in education to meet certification requirements. Departmental advisors assist students in determining the courses that will be required.

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

OTHER INFORMATION:
Please be advised that program and/or course requirements are subject to change, per state legislative mandates, Florida Department of Education program approval standards, and accreditation criteria.
Special Education, Gifted Program
M.A.

DEGREE INFORMATION
Type of Degree Offered:
Master of Arts - M.A.

Concentrations Offered:
n/a

Also offered as:
a Specialization/Concentration under Educational Program Development (Ed.D.) and Curriculum and Instruction (Ph.D.)

Program Status: Active

CONTACT INFORMATION
Program Director: Elizabeth Shaunessy
Other Contact: n/a
Phone: 813-974-3410
Fax: n/a
Email: n/a
Web Address: http://www.coedu.usf.edu/college/program_information.cf
m?id=24

Mailing Address:
University of South Florida
Special Education
Special Education, Gifted Program
4202 E. Fowler Ave, EDU162
Tampa, FL 33620

PROGRAM INFORMATION
Plan I - The Gifted Child Teacher Preparation program provides advanced training for certified teachers to work with gifted and talented children and to work with other teachers on a consultant or collaborative basis. Emphasis is placed on developing specific skills in identification of gifted students, focusing on the characteristics and needs of special populations, assessing students’ cognitive and affective strengths and weaknesses, modifying educational programs to develop gifted students’ potential, and consulting with gifted students, their families, and teachers. This program qualifies students for the State of Florida endorsement in Gifted Education.

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

Major Research Areas:
n/a

ADMISSION INFORMATION
Program may have additional requirements; check before applying.

DEGREE PROGRAM REQUIREMENTS:
Program of Study 36 hours
Process Core 3 hours - EDF 6481
Current Trends in Special Education 3 hours - EEX 6939
Specialization 24 hours
Special Education Program Core (6)
EEX 6025 EEX 6222
Specialization Courses (18)
EGI 5051 EGI 5325 EGI 6232 EGI 6936 EGI 6416 EGI 6943
Electives 6 hours
Comprehensive Examination

A Plan III option is also available for non-certified students. For information contact the program.

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

OTHER INFORMATION:
Please be advised that program and/or course requirements are subject to change, per state legislative mandates, Florida Department of Education program approval standards, and accreditation criteria.
Special Education, Mental Retardation Program  
M.A.

DEGREE INFORMATION

Type of Degree Offered:
Master of Arts - M.A.

Concentrations Offered:
n/a

Also offered as:
a Specialization/Concentration under Educational Program Development (Ed.D.) and Curriculum and Instruction (Ph.D.)

Program Status:  Active

CONTACT INFORMATION

Program Director: Betty Epanchin
Other Contact: n/a
Phone: 813-974-3410
Fax: n/a
Email: n/a
Web Address: http://www.coedu.usf.edu/college/program_information.cf
m?id=24

Mailing Address:
University of South Florida
Special Education
Special Education, Mental Retardation Program
4202 E. Fowler Ave, EDU162
Tampa, FL 33620

PROGRAM INFORMATION

The programs of study in the Department of Special Education prepare special education leaders for work in public and private schools and in state, federal, or community settings at the master’s and doctoral levels. Specific areas of education and training include behavior disorders, gifted, mental retardation, specific learning disabilities, and varying exceptionalities. The master’s programs emphasize consultative, supervisory, and multidisciplinary skills needed by persons who wish to assume innovative leadership roles in public or private school settings. The doctoral program prepares students for research, teacher education, and leadership roles.

After admission to a program, the candidate and the department advisor together chart a program of study incorporating both core requirements and courses of specific interest to the student. All programs stress field based experiences: practica and internships. Students provide their own transportation to practicum and internship sites.

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

Major Research Areas:
n/a

ADMISSION INFORMATION

Program may have additional requirements; check before applying.

DEGREE PROGRAM REQUIREMENTS:

All Special Education programs are currently under review. Students are advised to work closely with program advisors in the department when developing their program of study.

Plan I - The M.A. program in special education is a 36-hour program, designed for students holding a valid Florida teaching certificate in special education. A minimum core of 24 hours is taken in special education with field work and coursework required in certification areas.

This program is delivered through a number of formats. Evening and online courses are offered during the Fall, Spring, and Summer semesters. Daytime courses are sometimes offered during the Summer. Students usually take one or two courses a semester and complete their program of study within two to four years. Students are required to take courses two of the three semesters each calendar year and they must complete their program of study within 7 years of their admission date.

Program of Study 36 hour minimum
Process Core 3 hours - EDF 6481
Current Trends in Special Education 3 hours - EEX 6939
Concentrations/Specializations 27 hours minimum
Special Education Program Core: (21 hours)
EEX 6025* EEX 6612 EEX 6222 EEX 6245 EEX 6732 EEX 5752 EEX 6248
* Not required, if equivalent course taken in undergraduate program.

Mental Retardation Courses: (6 hours) - EMR 6052 EEX 6943
Electives 3-6 hours
Comprehensive Examination  A project is required to fulfill the comprehensive examination requirement.

For students seeking certification in Mental Retardation, 3 to 6 hours of coursework relevant to the student’s program of study are required and must be approved by the student’s advisor. The Dual track and Plan III options are also available for students who are not certified in special education. Dual track students are required to take prerequisite courses in education to meet certification requirements. Departmental advisors assist students in determining the courses that will be required.

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

OTHER INFORMATION:
Please be advised that program and/or course requirements are subject to change, per state legislative mandates, Florida Department of Education program approval standards, and accreditation criteria.
Special Education, Motor Disabilities Program
M.A.

DEGREE INFORMATION

Type of Degree Offered:
Master of Arts - M.A.

Concentrations Offered:
n/a

Also offered as:
a Specialization/Concentration under Educational Program Development (Ed.D.) and Curriculum and Instruction (Ph.D.)

Program Status: Active

CONTACT INFORMATION

Program Director: Betty Epanchin
Other Contact: n/a
Phone: 813-974-3410
Fax: n/a
Email: n/a
Web Address: http://www.coedu.usf.edu/college/program_information.cf?m?id=24

Mailing Address:
University of South Florida
Special Education
Special Education, Motor Disabilities Program
4202 E. Fowler Ave, EDU162
Tampa, FL 33620

PROGRAM INFORMATION

Not currently accepting students. For information contact program.

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

Major Research Areas:
n/a

ADMISSION INFORMATION

Program may have additional requirements; check before applying.

DEGREE PROGRAM REQUIREMENTS:
Not currently accepting students. For information contact program.

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

OTHER INFORMATION:
Please be advised that program and/or course requirements are subject to change, per state legislative mandates, Florida Department of Education program approval standards, and accreditation criteria.
Special Education, Specific Learning Disabilities Program

M.A.

DEGREE INFORMATION

Type of Degree Offered:
Master of Arts - M.A.

Concentrations Offered:
n/a

Also offered as:
a Specialization/Concentration under Educational Program Development (Ed.D.) and Curriculum and Instruction (Ph.D.)

Program Status: Active

CONTACT INFORMATION

Program Director: Betty Epanchin
Other Contact: n/a
Phone: 813-974-3410
Fax: n/a
Email: n/a
Web Address: http://www.coedu.usf.edu/college/program_information.cf?id=20

Mailing Address:
University of South Florida
Special Education
Special Education, Specific Learning Disabilities Program
4202 E. Fowler Ave, EDU162
Tampa, FL 33620

PROGRAM INFORMATION

The programs of study in the Department of Special Education prepare special education leaders for work in public and private schools and in state, federal, or community settings at the master’s and doctoral levels. Specific areas of education and training include behavior disorders, gifted, mental retardation, specific learning disabilities, and varying exceptionalities. The master’s programs emphasize consultative, supervisory, and multidisciplinary skills needed by persons who wish to assume innovative leadership roles in public or private school settings. The doctoral program prepares students for research, teacher education, and leadership roles.

After admission to a program, the candidate and the department advisor together chart a program of study incorporating both core requirements and courses of specific interest to the student. All programs stress field-based experiences: practica and internships. Students provide their own transportation to practicum and internship sites.

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

Major Research Areas:
n/a

ADMISSION INFORMATION

Program may have additional requirements; check before applying.

DEGREE PROGRAM REQUIREMENTS:

All Special Education programs are currently under review. Students are advised to work closely with program advisors in the department when developing their program of study.

Plan I - The M.A. program in special education is a 36-hour program, designed for students holding a valid Florida teaching certificate in special education. A minimum core of 24 hours is taken in special education with field work and coursework required in certification areas.

This program is delivered through a number of formats. Evening and online courses are offered during the Fall, Spring, and Summer semesters. Daytime courses are sometimes offered during the Summer. Students usually take one or two courses a semester and complete their program of study within two to four years. Students are required to take courses two of the three semesters each calendar year and they must complete their program of study within 7 years of their admission date.

Program of Study 36 hour minimum
Process Core 3 hours - EDF 6481
Current Trends in Special Education 3 hours - EEX 6939
Concentrations/Specializations 27 hours minimum
Special Education Program Core: (21 hours)
EEX 6025* EEX 6612 EEX 6222 EEX 6245 EEX 6732
EEX 5752 EEX 6248
* Not required, if equivalent course taken in undergraduate program.

Specific Learning Disabilities Courses: (6 hours) - ELD 6015 EEX 6943
Electives 3-6 hours
Comprehensive Examination  A project is required to fulfill the comprehensive examination requirement.

For students seeking certification in Behavior Disorders, Learning Disabilities, and Mental Retardation, 3 to 6 hours of coursework relevant to the student’s program of study are required and must be approved by the student’s advisor. The Dual track and Plan III options are also available for students who are not certified in special education. Dual track students are required to take prerequisite courses in education to meet certification requirements. Departmental advisors assist students in determining the courses that will be required.

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

OTHER INFORMATION:
Please be advised that program and/or course requirements are subject to change, per state legislative mandates, Florida Department of Education program approval standards, and accreditation criteria.
Special Education, Varying Exceptionalities Program

M.A.

DEGREE INFORMATION

Type of Degree Offered:
Master of Arts - M.A.

Concentrations Offered:
n/a

Also offered as:
a Specialization/Concentration under Educational Program Development (Ed.D.) and Curriculum and Instruction (Ph.D.)

Also offered at USF-St. Petersburg

Program Status: Active

CONTACT INFORMATION

Program Director: Betty Epanchin
Other Contact: n/a
Phone: 813-974-3410
Fax: n/a
Email: n/a
Web Address: http://www.coedu.usf.edu/college/program_information.cf
m?id=20

Mailing Address:
University of South Florida
Special Education
Varying Exceptionalities Program
4202 E. Fowler Ave, EDU162
Tampa, FL 33620

PROGRAM INFORMATION

The programs of study in the Department of Special Education prepare special education leaders for work in public and private schools and in state, federal, or community settings at the master's and doctoral levels. Specific areas of education and training include behavior disorders, gifted, mental retardation, specific learning disabilities, and varying exceptionalities. The master’s programs emphasize consultative, supervisory, and multidisciplinary skills needed by persons who wish to assume innovative leadership roles in public or private school settings. The doctoral program prepares students for research, teacher education, and leadership roles.

After admission to a program, the candidate and the department advisor together chart a program of study incorporating both core requirements and courses of specific interest to the student. All programs stress field based experiences: practica and internships. Students provide their own transportation to practicum and internship sites.

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

Major Research Areas:
n/a

ADMISSION INFORMATION

Program may have additional requirements; check before applying.

DEGREE PROGRAM REQUIREMENTS:

All Special Education programs are currently under review. Students are advised to work closely with program advisors in the department when developing their program of study.

Plan I - The M.A. program in special education is a 36-hour program, designed for students holding a valid Florida teaching certificate in special education. A minimum core of 24 hours is taken in special education with field work and coursework required in certification areas.

This program is delivered through a number of formats. Evening and online courses are offered during the Fall, Spring, and Summer semesters. Daytime courses are sometimes offered during the Summer. Students usually take one or two courses a semester and complete their program of study within two to four years. Students are required to take courses two of the three semesters each calendar year and they must complete their program of study within 7 years of their admission date.

Program of Study 36 hour minimum
Process Core 3 hours - EDF 6481
Current Trends in Special Education 3 hours - EEX 6939
Concentrations/Specializations 27 hours minimum
Special Education Program Core: (21 hours)
EEX 6025* EEX 6612 EEX 6222 EEX 6245 EEX 6732
EEX 5752 EEX 6248
* Not required, if equivalent course taken in undergraduate program.

Varying Exceptionalities Courses: (12 hours) - EED 6215 ELD 6015 EMR 6052 EEX 6943
Electives 3-6 hours
Comprehensive Examination  A project is required to fulfill the comprehensive examination requirement.

For students seeking certification in Behavior Disorders, Learning Disabilities, and Mental Retardation, 3 to 6 hours of coursework relevant to the student’s program of study are required and must be approved by the student’s advisor. The Dual track and Plan III options are also available for students who are not certified in special education. Dual track students are required to take prerequisite courses in education to meet certification requirements. Departmental advisors assist students in determining the courses that will be required.

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

OTHER INFORMATION:
Please be advised that program and/or course requirements are subject to change, per state legislative mandates, Florida Department of Education program approval standards, and accreditation criteria.
Special Education, Varying Exceptionalities Program
M.A.T.

DEGREE INFORMATION

Type of Degree Offered:
Master of Arts in Teaching - M.A.T.

Concentrations Offered:
n/a

Also offered as:
a Specialization/Concentration under Educational Program Development (Ed.D.) and Curriculum and Instruction (Ph.D.)

Program Status: Active

CONTACT INFORMATION

Program Director: Betty Epanchin
Other Contact: n/a
Phone: 813-974-3410
Fax: n/a
Email: n/a
Web Address: http://www.coedu.usf.edu/college/program_information.cf
m?id=20

Mailing Address:
University of South Florida
Special Education
Special Education, Varying Exceptionalities Program
4202 E. Fowler Ave, EDU162
Tampa, FL 33620

PROGRAM INFORMATION

The Master of Arts in Teaching/ESOL, (MAT) is a new graduate program in special education at the University of South Florida. This program will lead to a MAT and certification in Varying Exceptionalities/ESOL certification. This program requires 36-48 credit hours. Although this program is specifically designed for employed out-of-field teachers in special education who do not hold a professional certificate in teaching, this program of studies can be adjusted to allow students who are certified in elementary and secondary education to participate in this program. Preference will be given to those students who do not hold a professional teaching certificate. Students will be admitted twice annually in the summer and spring semesters and will matriculate as members of a cohort. The special requirements for ESOL endorsement through infusion are as follows: Successful completion of (1) ESOL 1, 2, and 3, with a minimum grade of 70% or better on all three sections of the ESOL Comprehensive Exam administered in the three ESOL courses; (2) a 20-hour early ESOL field experience in ESOL 1; (3) a late ESOL field experience where students plan, implement, and evaluate lessons for one or more ESOL students over a series of weeks; and (4) an ESOL folder, containing all assignments and test results from ESOL 1, 2, and 3.

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

Major Research Areas:
n/a

ADMISSION INFORMATION

Program may have additional requirements; check before applying.

DEGREE PROGRAM REQUIREMENTS:

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>EEX 6615 Creating Positive Learning Environments for Students with Disabilities</td>
<td>6</td>
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<tr>
<td>RED 6510 The Reading Process in the Elementary School</td>
<td>3</td>
</tr>
<tr>
<td>EDF 6122 Psychological Foundations of Education</td>
<td>3</td>
</tr>
<tr>
<td>FLE 5315 Theory and Practice of Teaching English Language Learners</td>
<td>3</td>
</tr>
<tr>
<td>EEX 6225 Developing Individualized Educational Programs for students with Disabilities</td>
<td>6</td>
</tr>
<tr>
<td>MAE 4310 Teach Elementary Math</td>
<td>3</td>
</tr>
<tr>
<td>EDF 6931 (EEX 6253) Implementing and Evaluating Programs for Students with Disabilities</td>
<td>6</td>
</tr>
<tr>
<td>RED 6544 Remediation of Comprehension Problems</td>
<td>3</td>
</tr>
<tr>
<td>EDF 6432 Foundations of Measurement</td>
<td>3</td>
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<tr>
<td>FLE 5316 Second Language Acquisition and Literacy in Children and Adolescents</td>
<td>3</td>
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<tr>
<td>EDG 6947 (EEX 6947) Internship and Classroom Research</td>
<td>6</td>
</tr>
<tr>
<td>FLE 5317 Language Principles, Acquisition, and Assessment for Teaching English Language Learners</td>
<td>3</td>
</tr>
</tbody>
</table>

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

OTHER INFORMATION:

Please be advised that program and/or course requirements are subject to change, per state legislative mandates, Florida Department of Education program approval standards, and accreditation criteria.
Speech-Language Pathology (post Bacc) Program
M.S.

DEGREE INFORMATION
Type of Degree Offered:
Master of Science - M.S.

Concentrations Offered:
n/a

Also offered as:
n/a

Program Status: Active

CONTACT INFORMATION
Program Director: Arthur M. Guilford
Other Contact:
Phone: 813-974-2006
Fax: 813-974-0822
Email: jharring@chuma1.cas.usf.edu
Web Address: http://www.cas.usf.edu/csd/index.htm

Mailing Address:
University of South Florida
Communication Sciences and Disorders
Speech-Language Pathology (post Bacc)
Program
4202 E. Fowler Avenue, PCD1017
Tampa, FL  33620

PROGRAM INFORMATION
The Department of Communication Sciences and Disorders is devoted to the study of normal and disordered human communication. Courses and practice provide the student with principles, research methods and application of knowledge about the spectrum of verbal and non-verbal communication. Diagnosis and remediation of communicative problems dominate the clinical component of this course of study.

The Master of Science and Doctor of Audiology degrees offered through the Department are structured to meet the preparation requirements of the American Speech-Language-Hearing Association for the Certificate of Clinical Competence. In addition to core material, each student may elect to pursue a program of specialization in the areas of Speech-Language Pathology, Audiology, or Aural Rehabilitation (Deaf Education or Hearing Impaired). The Speech-Language Pathology and Audiology programs are accredited by the Council on Academic Accreditation of the American Speech-Language-Hearing Association.

The Department offers a concentration in Speech-Language-Hearing Sciences at the undergraduate level. This concentration, combined with other requirements, culminates in a Bachelor of Arts degree in Interdisciplinary Social Sciences (ISS).

Accreditation:

Major Research Areas:
n/a

ADMISSION INFORMATION
Program may have additional requirements; check before applying.

DEGREE PROGRAM REQUIREMENTS:
All majors must complete the following Core Requirements. (20Credits)
SPA 5150L (3) (Speech-Language majors only)
SPA 5552 (3)
SPA 5408 (3)
SPA 6410 (3)
SPA 6805 (3)
SPA 6571 (2)
SPA 6930 (3)
SPA 6410 (3)

In addition to general University requirements for the master’s degree, candidates must complete at least 34 hours of regularly scheduled academic coursework at the graduate level. Also, students will enroll in sufficient graduate clinical practicum to meet a minimum of 375 clock hours to fulfill the requirements of the American Speech-Language-Hearing Association. Of these hours, at least 250 clock hours must be in the specialization area at the graduate level in which certification is being sought. Also required for graduation are the attainment of a ‘B’ or better in each graduate Speech-Language Pathology course, the attainment of clinical competence determined by a GPA of 3.0 in all clinical practica, satisfactory passage of the National Teacher Examination in the specialty of Speech-Language Pathology and successful completion of a thesis or non-thesis option. With the department chairperson’s approval, a student with an existing bachelor’s degree and appropriate prerequisites may plan the degree program from among the following courses. Course selection is based on prescribed content areas within the discipline.
SPA 5150 (3) SPA 5150L (2) SPA 5303 (3) SPA 6403 (3)
SPA 5408 (3) SPA 5506 (1-8) SPA 5552 (2) SPA 6106 (3)
SPA 6232 (3) SPA 6245 (3) SPA 6322 (3) SPA 6401 (3)
SPA 6410 (3) SPA 6413 (3) SPA 6415 (3) SPA 6505 (1-9)
SPA 6553(3) SPA 6601 (1) SPA 6805 (3) SPA 6906 (var)
SPA 6910 (var) or SPA 6971 (var) SPA 6930 (3) SPA
7931 (3)
SPA 6473 SPA 6204

**Thesis**
In addition to the Core Requirements, each student will complete a minimum of 35 hours of elective course work and sufficient clinical practicum hours to satisfy the clock hour requirements as stated below. Also, each student must complete at least 1 hour of SPA 6910 (Directed Research) and a minimum of 5 hours of SPA 6971 (Thesis) and submit an approved thesis.

**Non-thesis**
In addition to the Core Requirements, each student will complete a minimum of 35 hours of elective course work and sufficient clinical practicum hours to satisfy the clock hour requirements as stated below. Also, each student must complete an additional 7 hours of coursework. Of these, at least 3 hours must be from within the department while 3 hours may be selected from another department. A 1-hr. Directed Research experience is required. Prior to initiation of non-thesis option coursework, the student must obtain approval from an advisor, study plan director, and the department chair.

**COURSES:**
See [http://www.ugs.usf.edu/sab/sabs.cfm](http://www.ugs.usf.edu/sab/sabs.cfm)

**OTHER INFORMATION:**
N/a
Womens Studies Program
M.A.

DEGREE INFORMATION

Type of Degree Offered:
Master of Arts - M.A.

Concentrations Offered:
n/a

Also offered as:
n/a

Program Status:

CONTACT INFORMATION

Program Director: Marilyn Myerson, Ph.D.
Other Contact: n/a
Phone: 813-974-3496
Fax: 813-974-0336
Email: myerson@cas.usf.edu
Web Address: http://www.cas.usf.edu/womens_studies/index.html
Mailing Address:
University of South Florida
Women’s Studies
Womens Studies Program
4202 E. Fowler Avenue, FAO100U
Tampa, FL 33620

PROGRAM INFORMATION

The M.A. in Women’s Studies requires the completion of 36 credit hours. The program has two tracks: a research option that requires a thesis and an applied option that requires an internship and subsequent analytic report on the internship experience. This format was designed to serve the needs of a variety of different categories of students desiring a graduate degree in Women’s Studies. The thesis option is recommended for students who intend eventually to pursue a doctoral degree. The internship option is recommended for students who seek the M.A. as a terminal degree.

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

Major Research Areas:
n/a

ADMISSION INFORMATION

Program may have additional requirements; check before applying.

DEGREE PROGRAM REQUIREMENTS:

The M.A. in Women’s Studies requires the completion of thirty-six credit hours. These hours are divided as follows:

1. Four required core courses (12 cr. hrs.) chosen from WST 6001, WST 6406, WST 6560, WST 6002 and an additional course currently being offered under WST 5934 Selected Topics: Feminist Challenges to Traditional Paradigms

2. Elective courses (18 cr. hrs.) to be selected from a) courses offered by the Department of Women’s Studies, up to six cr. hrs. of which may be 4000-level courses, b) graduate courses on women and issues surrounding the intersection of gender/class/race offered by other departments, c) no more than one other graduate-level course approved by the graduate director.

Thesis
Six credit hours of thesis research, typically over two semesters, during which the student will develop a thesis prospectus approved by the student’s thesis committee and complete a Master’s thesis on the approved topic. The completed Thesis must be defended at an oral defense.

Non-thesis
Six credit hours of internship experience, typically over two semesters, in a human service agency or other institution or organization that deals primarily with women. The internship will be approved by the student’s internship committee. The student will be required to write a narrative report describing the internship in detail and analyzing the experience in terms of appropriate theoretical frameworks. The completed narrative and experience must be defended as an oral defense.

Comprehensive Examinations
Each student must pass a written comprehensive examination. It is expected that a student will successfully complete the comprehensive examination prior to beginning thesis or internship work.

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

OTHER INFORMATION:
N/a
Graduation Information

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

The application for a graduate degree is available from the Office of the Registrar or the student’s college advising office. The application must first be certified (signed or stamped in the section, “Office Use Only”) by the student’s college. The college retains one copy, and the student must submit the remaining copies to the Office of the Registrar prior to the graduation application deadline. Inquiries concerning approval or denial of graduation should be made to the appropriate college.

It is the student’s responsibility to clear all “I” grades (incompletes) in courses required for graduation and to provide official transcripts of all transferred course work needed for graduation at least 3 weeks prior to the end of the term in which he/she expects to graduate.

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

Graduation Checklist
During the semester in which graduation* is anticipated, Thesis/Dissertation students must:

1. have an approved and accurate Supervisory Committee Form on file in the Program/College
2. be enrolled in at least 2 thesis/dissertation hours
3. submit their thesis/dissertation for processing to verify compliance to university requirements by the Graduate Studies Deadlines online at http://www.grad.usf.edu/manuscriptdeadlines_new.asp
4. pay any required fees associated with the thesis/dissertation process (manuscript processing fee, library binding fee, microfilming fee, etc.) Information is available on the thesis/dissertation website.
5. apply for graduation by the posted deadline (See Academic Calendar)

*note: these requirements (except for the application for degree) apply to internship students in the semester that the Thesis/Dissertation is submitted (not the semester of graduation) due to internship requirements. Students in an internship program that are required to submit a Thesis/Dissertation should contact the Editor at jgiles@grad.usf.edu for more information.

Commencement
Graduate students may not participate in commencement exercises until all requirements for the degree sought have been fulfilled.

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

Letters of Certification
Students in need of verification of the degree prior to receiving their diploma may request a Letter of Certification. This letter specifies that the student has finished all of the requirements for the degree and the date the degree will be conferred on. The letter must include the student’s social security number, name of degree program and official name of the degree. It must be signed by the Major Professor, the College Dean (or designee), the Coordinator (or designee) in Graduate Studies, and the Registrar. A template is available on the Graduate Studies website at http://www.grad.usf.edu.
Posthumous Degrees or Degrees in Memoriam
The University may award a posthumous master’s or doctoral (and medical) degree to a student who was in good standing at the University at the time of his or her death and who had completed all substantive requirements for the degree. The University may also award master’s, doctoral and medical degrees in memoriam to a student who was in good standing at the University at the time of his or her death.

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

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

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

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

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

To view the Course Listing with descriptions, see Appendix.

Glossary of Course Description Terms
Courses offered for credit by the University of South Florida are listed with the program or college that offers them. The first line of each description includes the State Common Course prefix and number (see below), title of the course, and number of credits.

Credits separated by a colon indicate concurrent lecture and laboratory courses taught as a unit:
PHY 3040, 3040L PHYSICS AND LAB (3:1)

Credits separated by a comma indicate unified courses offered in different semesters:
AMH 2010, 2020 AMERICAN HISTORY I, II (4,4)

Credits separated by a hyphen indicate variable credit:
MAT 7912 DIRECTED RESEARCH Var.

The following abbreviations are used in various course descriptions:
G Graduate
PR Prerequisite
CI With the consent of the instructor
CC With the consent of the chairperson of the department or program
CR Co-requisite
Lec Lecture
Lab Laboratory
Dem Demonstration
Pro Problem
Dis Discussion
ML Master's Level
GS Graduate Standing
Rpt May be repeated
UL Upper level
S/U No grade, Satisfactory/Unsatisfactory Only

Course Level Definitions:
5000-5999 Senior/Graduate Level
6000-Up Graduate Level

The University reserves the right to substitute, not offer, and add courses and programs that are listed in this catalog.
Florida’s Statewide Course Numbering System

Courses in this catalog are identified by prefixes and numbers were assigned by Florida’s Statewide Course Numbering System. This common numbering system is used by all public postsecondary institutions in Florida and by participating non-public institutions. The major purpose of this system is to facilitate the transfer of courses between participating institutions.

Each participating institution controls the title, credit, and content of its own courses and recommends the first digit of the course number to indicate the level at which students normally take the course. Course prefixes and the last three digits of the course numbers are assigned by members of faculty discipline committees appointed for that purpose by the Florida Department of Education in Tallahassee. Individuals nominated to serve on these committees are selected to maintain a representative balance as to type of institution and discipline field or specialization.

The course prefix and each digit in the course number have a meaning in the Statewide Course Numbering System (SCNS). The list of course prefixes and numbers, along with their generic titles, is referred to as the “SCNS taxonomy.” Descriptions of the content of courses are referred to as “statewide course details.”

Example of Course Identifier

<table>
<thead>
<tr>
<th>Prefix</th>
<th>Level</th>
<th>Century</th>
<th>Decade</th>
<th>Unit</th>
<th>Lab Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>SYG</td>
<td>1</td>
<td>0</td>
<td>1</td>
<td>0</td>
<td></td>
</tr>
<tr>
<td>Sociology, General</td>
<td>Freshman</td>
<td>Level at this institution</td>
<td>Entry-level</td>
<td>General Sociology</td>
<td>Survey Course</td>
</tr>
</tbody>
</table>

General Rule for Course Equivalencies

Equivalent courses at different institutions are identified by the same prefixes and same last three digits of the course number and are guaranteed to be transferable between participating institutions that offer the course, with a few exceptions. (Exceptions are listed below.)
For example, a survey course in social problems is offered by 34 different postsecondary institutions. Each institution uses “SYG_010” to identify its social problems course. The level code is the first digit and represents the year in which students normally take the course at a specific institution. In the SCNS taxonomy, “SYG” means “Sociology, General,” the century digit “0” represents “Entry-level General Sociology,” the decade digit “1” represents “Survey Course,” and the unit digit “0” represents “Social Problems.”

In science and other areas, a “C” or “L” after the course number is known as a lab indicator. The “C” represents a combined lecture and laboratory course. The “L” represents a laboratory course or the laboratory part of a course, having the same prefix and course number without a lab indicator, which may meet at a different time or place.

Transfer of any successfully completed course from one institution to another is guaranteed in cases where the course to be transferred is equivalent to one offered by the receiving institution. Equivalencies are established by the same prefix and last three digits and comparable faculty credentials at both institutions. For example, SYG 1010 is offered at a community college while the same course is offered at a state university as SYG 2010. A student who has successfully completed SYG 1010 at the community college is guaranteed to receive transfer credit for SYG 2010 at the state university upon transfer. The student cannot be required to take SYG 2010 again since SYG 1010 is equivalent to SYG 2010. Transfer credit must be awarded for successfully completed equivalent courses and used by the receiving institution to determine satisfaction of requirements on the same basis as credit awarded to the native students. It is the prerogative of the receiving institution to offer transfer credit for courses successfully completed which have not been designated as equivalent.

The Course Prefix
The course prefix is a three-letter designator for a major division of an academic discipline, subject matter area, or sub-category of knowledge. The prefix is not intended to identify the department in which a course is offered. Rather, the content of a course determines the prefix designation.

Authority for Acceptance of Equivalent Courses
State Board of Education Rule 6A-10.024(19), Florida Administrative Code, reads:

When a student transfers among postsecondary institutions that are fully accredited by a regional or national accrediting agency recognized by the United States Department of Education and that participate in the common course designation and numbering system, the receiving institution shall award credit for courses satisfactorily completed at the previous participating institutions when the courses are judged by the appropriate common course designation and numbering system faculty task forces to be academically equivalent to courses offered at the receiving institution, including equivalency of faculty credentials, regardless of the public or nonpublic control of the previous institution. The award of credit may be limited to courses that are entered in the course numbering system. Credits so awarded shall satisfy institutional requirements on the same basis as credits awarded to native students.

Exceptions to the General Rule for Equivalency
The following courses are exceptions to the general rule for course equivalencies and may not transfer. Transferability is at the discretion of the receiving institution:

Courses in the 900-999 series (e.g., HUM 2905)
Internships, practica, clinical experiences, and study abroad courses
Performance or studio courses in Art, Dance, Theater, and Music
Skills courses in Criminal Justice
Graduate courses
Courses not offered by the receiving institution

College preparatory and vocational preparatory course may not be used to meet degree requirements and are not transferable.

Questions about the Statewide Course Numbering System and appeals regarding course credit transfer decisions should be directed to (Name of Institution Statewide Course Numbering System Contact) in the (Office where Institution Contact may be located) or the Florida Department of Education, Office of Articulation, 1401 Turlington Building, Tallahassee, Florida 32399-0400. Special reports and technical information may be requested by calling telephone number (850) 245-0427 or SunCom 205-0427.

To view the Course Listing with descriptions, see Appendix.
Financial Aid, Fellowships, and Grants

Financial Aid
Graduate Students may be eligible for financial assistance. For information, contact the Office of Financial Aid, at http://www.usf.edu/finaid/
Graduate Programs and Colleges may also have scholarships and fellowships available to graduate students. For information, check with your program and/or college.

Scholarships Available From Outside Sources
Air Force ROTC – http://www.afrotc.com

Scholarships/Fellowships administered by Graduate Studies

Ann Winch Fellowship at http://download.grad.usf.edu/2002_03BROCHURE.doc

Presidential Doctoral Fellowship at http://www.grad.usf.edu/Presidential_doctoral_brochure.asp

Foundation Doctoral Fellowship at http://www.grad.usf.edu/fellowship_doctoral_brochure.asp

Graduate Educational Opportunity Grant (GEOG) - for information contact Rod Hale at rhale@grad.usf.edu

Latino Graduate Fellowship (LGF) - for information contact Rod Hale at rhale@grad.usf.edu

USF GRANT
Graduate Students are eligible for the USF Grant. For information, contact the Office of Financial Aid at http://www.usf.edu/finaid/

Academic Services and Support

The following services and organizations are available to graduate students:

Graduate and Professional Student Council (formerly Graduate and Professional Student Organization) GPSC – http://www.gpsc.usf.edu

Graduate Multicultural Affairs Office
Provides information for minority students regarding various multicultural programs. For information contact Rod Hale at 974-3412 or Rhale@grad.usf.edu

Academic Services Area
Provides assistance to students regarding the thesis/dissertation process.
Provides assistance to faculty regarding the graduate curriculum process.
Maintains and updates Graduate Catalog.
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APPENDIX – Academic Dishonesty


The text is provided below as well, in case the link is not working:

Academic Dishonesty And Disruption Of Academic Process

Students attending USF are awarded degrees in recognition of successful completion of coursework in their chosen fields of study. Each individual is expected to earn his/her degree on the basis of personal effort. Consequently, any form of cheating on examinations or plagiarism on assigned papers constitutes unacceptable deceit and dishonesty. Disruption of the classroom or teaching environment is also unacceptable. This cannot be tolerated in the University community and will be punishable, according to the seriousness of the offense, in conformity with this rule.

Plagiarism

Plagiarism is defined as "literary theft" and consists of the unattributed quotation of the exact words of a published text, or the unattributed borrowing of original ideas by paraphrase from a published text. On written papers for which the student employs information gathered from books, articles, web sites, or oral sources, each direct quotation, as well as ideas and facts that are not generally known to the public at large, or the form, structure, or style of a secondary source must be attributed to its author by means of the appropriate citation procedure. Only widely known facts and first-hand thoughts and observations original to the student do not require citations. Citations may be made in footnotes or within the body of the text. Plagiarism also consists of passing off as one's own segments or the total of another person's work.

1. Examples of proper citation (footnote format) are as follows [Footnoting/citation styles will depend upon those used by different academic disciplines.]

Many disciplines in the Natural Science areas, for example, will cite the sources within the body of the text.]


d. In defining plagiarism, "Strategies for Teaching with Online Tools" suggests that visibility makes intellectual theft less probable. 1[Paraphrasing a Web site]

2. Examples of proper citation (in body of text):

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

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

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

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

   a. Plagiarism, from a Latin word meaning "kidnapping," ranges from inept paraphrasing to outright theft.
   b. Plagiarism comes from a Latin word meaning "kidnapping" and ranges from paraphrasing to theft.
   c. Plagiarism ranges from inept paraphrasing to outright theft.
   d. Visibility online makes plagiarism much more difficult for the would-be thief.

**Punishment Guidelines:**
The student who submitted the subject paper, lab report, etc., shall receive an "F" with a numerical value of zero on the item submitted, and the "F" shall be used to determine the final course grade. It is the option of the instructor to fail the student in the course.

**Cheating**
Cheating is defined as follows: (a) the unauthorized granting or receiving of aid during the prescribed period of a course-graded exercise: students may not consult written materials such as notes or books, may not look at the paper of another student, nor consult orally with any other student taking the same test; (b) asking another person to take an examination in his/her place; (c) taking an examination for or in place of another student; (d) stealing visual concepts, such as drawings, sketches, diagrams, musical programs and scores, graphs, maps, etc., and presenting them as one's own; (e) stealing, borrowing, buying, or disseminating tests, answer keys or other examination material except as officially authorized, research papers, creative papers, speeches, etc. (f) Stealing or copying of computer programs and presenting them as one's own. Such stealing includes the use of another student's program, as obtained from the magnetic media or interactive terminals or from cards, print-out paper, etc.

**Punishment Guidelines For Academic Dishonesty:**
Punishments for academic dishonesty will depend on the seriousness of the offense and may include receipt of an "F" or "Zero" on the subject paper, lab report, etc., an "F" in the course, suspension or expulsion from the University. The University drop and forgiveness policies shall be revoked for a student accused of academic dishonesty. The internal transcript of a student who is awarded an "F" for academic dishonesty will read "FF." Notice that a student has been dismissed for reasons of academic dishonesty may be reflected on the student's transcript.

   a. For observation of or exchanging test information with other students during the course of a classroom test, the students who receive or give such information may receive an "F" with a numerical value of zero on the test, and the "F" shall be used to determine the final course grade. It is the option of the instructor to fail the student in the course.
   b. For the use of any prohibited device, such as a cheat sheet, recording, calculator if forbidden on exam, etc., during the course of a classroom test to assist the student or other students, the student using such prohibited device may receive an "F" in the course.
   c. For the use of another student, a stand-in, to take an examination for the enrolled student, it is suggested that the enrolled student receive an "F" in the course and be suspended from school for one year and that the stand-in, if a University student, be suspended from school for one year.
   d. For stealing, borrowing, or buying of research papers, creative works, speeches or tests and other exam materials, or the dissemination of such materials, or the manipulation of recorded grades in a grade book or other class records, the student, if enrolled in the course, may receive an "F" in the course and may be
e. It is suggested that students who receive or give stolen computer programs receive an "F" with a numerical value of zero on the program or programs, and the "F" be used to determine the final course grade. It is the option of the instructor to fail the student in the course.

Disruption of Academic Process
Disruption of academic process is defined as the act or words of a student in a classroom or teaching environment which in the reasonable estimation of a faculty member: (a) directs attention from the academic matters at hand, such as noisy distractions; persistent, disrespectful or abusive interruptions of lecture, exam or academic discussions, or (b) presents a danger to the health, safety or well being of the faculty member or students.

Punishment Guidelines For Disruption Of Academic Process:
Punishments for disruption of academic process will depend on the seriousness of the disruption and will range from a private verbal reprimand to dismissal from class with a final grade of "W," if the student is passing the course, shown on the student record. If the student is not passing, a grade of "F" will be shown on the student record.

Procedures for Handling Student Violations Involving Alleged Academic Dishonesty And Disruption Of Academic Process
Alleged violations of academic dishonesty or alleged disruptions of academic process will be handled initially by the instructor, who will discuss the incident with the student. It must be noted that the Faculty Senate considers the traditional relationship between student and faculty member as the primary means of settling disputes that may arise. If the instructor observes the alleged dishonesty occurring during an examination, he/she should, with discretion, notify the student of the fact before the student leaves the examination. In all cases, the instructor must attempt to schedule a meeting with the student to discuss the alleged dishonesty or disruptions.

After the discussion, if the student and instructor have reached a mutual agreement as to the solution, the instructor shall file a statement with the chairperson of the department or equivalent, e.g. campus dean, responsible for the course outlining the facts of the incident and the agreed-upon solution signed by both the instructor and student. A copy of this statement shall be given to the student. If no solution is reached, the matter should be referred to the chairperson of the department or the equivalent, e.g. campus dean, for attempt at resolution. If no resolution is reached, the matter should be referred to the dean of the college for attempt at resolution. If no solution is reached, the dean shall appoint a student/faculty committee consisting of an equal number of students and faculty to hear the two sides of the incident and to advise the dean regarding the disposition of the case.

Academic Committee Pre-Hearing Procedure
Within a reasonable time following the failure of the student/instructor/dean meetings to bring about a solution, and in no event later than three (3) months after such failure, the dean shall cause formal charges to be filed with the appointed academic committee. The charged student shall be provided a written notice of charges, in sufficient detail to prepare for the hearing, no less than three (3) days before the hearing, except in cases of emergency as specified below.

Hearings
Emergency Hearings. An expedited emergency hearing may be held before an academic administrator appointed by the dean or by the appointed academic committee in cases that involve the safety, health or welfare of any student or staff member.

Non-Emergency Hearings. Non-emergency hearings are held before the Academic Committee.

General Principles for Non-Emergency Hearings

Burden of Proof. The burden of proof shall be on the complainant. The standard of proof for decision shall be "substantial evidence," that is, whether it is reasonable to conclude from the evidence submitted that the student did commit the violations for which he/she has been charged and shall not be the strict criminal law standard of proof beyond a reasonable doubt.

Record. The proceedings of all hearings shall be recorded.
Inspection of Evidence. The student may inspect the evidence that will be presented against him/her.
Present Evidence. The student may present evidence on his/her own behalf.

Question Witnesses. The student may hear and question adverse witnesses.

Self-Incrimination. The student shall not be forced to present testimony that would be self-incriminating.

Advisor. The student may have an advisor of his/her choice present; however, the role of such a person is as an advisor to the student only. The advisor may speak to and consult with the student but may not serve as the student's advocate, question witnesses or otherwise participate in the proceedings.

Decision Based on Evidence. The decision of the academic committee or appointed academic administrator shall be based solely on the evidence presented at the hearing.

Decision in Writing. The decision of the academic committee or appointed academic administrator, including findings of fact and a determination of penalty or sanction if any, shall be presented to the student in writing within a reasonable period of time following the hearing.

Enrollment Status. The student's enrollment status will remain unchanged pending final resolution, except in cases of emergency, as described above. If the student has filed a formal appeal of the instructor's action at the time that final grades are assigned, the instructor must assign a grade of "I" until the appeal process has concluded. Upon conclusion of the appeal process, the instructor should submit a Change of Grade form to the department chair for the assignment of the appropriate final grade.

Closed Hearings. All hearings shall be closed unless specifically requested otherwise in writing by the charged student prior to the hearing.

Failure to Appear. If a student against whom charges have been made fails to appear, the academic committee or academic administrator may proceed in his/her absence.

Hearing on Appeal. The charged student may appeal the decision of the academic committee or appointed academic administrator within thirty (30) working days of decision to the Dean of Undergraduate Studies or the Dean of the Graduate School, whichever is appropriate. The record of the initial hearing may be considered on appeal and the student is entitled to access the record when appealing. The decision of the Dean of Undergraduate Studies or the Dean of the Graduate School is final.
**APPENDIX – Course Disriptions**

**Glossary of Course Description Terms**
Courses offered for credit by the University of South Florida are listed with the program or college that offers them. The first line of each description includes the State Common Course prefix and number (see below), title of the course, and number of credits. Credits separated by a colon indicate concurrent lecture and laboratory courses taught as a unit:

**PHY 3040, 3040L GENERAL PHYSICS AND LABORATORY (3:1)**

Credits separated by a comma indicate unified courses offered in different semesters:

**AMH 2010, 2020 AMERICAN HISTORY I, II (4,4)**

Credits separated by a hyphen indicate variable credit:

**MAT 7912 DIRECTED RESEARCH Var.**

The following abbreviations are used in various course descriptions:
- **G** Graduate
- **PR** Prerequisite
- **CI** With the consent of the instructor
- **CC** With the consent of the chairperson of the department or program
- **CR** Co-requisite
- **Lec** Lecture
- **Lab** Laboratory
- **Dem** Demonstration
- **Pro** Problem
- **Dis** Discussion
- **ML** Master's Level
- **GS** Graduate Standing
- **Rpt** May be repeated
- **UL** Upper level
- **S/U** No grade, Satisfactory/Unsatisfactory Only

**Course Level Definitions:**
- 5000-5999 Senior/Graduate Level
- 6000-Up Graduate Level

The University reserves the right to substitute, not offer, and add courses and programs that are listed in this catalog.

**Graduate Courses Listing**

<table>
<thead>
<tr>
<th>SUBJECT</th>
<th>NUMBER</th>
<th>TITLE</th>
<th>CREDIT</th>
<th>DEPARTMENT</th>
<th>Catalog</th>
<th>COURSE DESCRIPTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>ACG</td>
<td>6025</td>
<td>Financial Accounting for Managers</td>
<td>2 BA</td>
<td>MBA</td>
<td>Not available for credit for graduate students in the Master of Accountancy program.</td>
<td>Study of (1) accounting concepts and standards applicable to presentation of financial information to interested users, (2) structure and interpretation of financial statements, especially issues of income determination and assessment measurement.</td>
</tr>
<tr>
<td>ACG</td>
<td>6075</td>
<td>Management Accounting and Control</td>
<td>2 BA</td>
<td>MBA</td>
<td>PR: ACG 6025. Not available for credit for graduate students in the Master of Accountancy program.</td>
<td>Deals with management accounting systems for different types of entities, cost behavior patterns, cost-volume-profit analysis, relevant information for decision making, and budgets and standard costs for planning and control.</td>
</tr>
<tr>
<td>Course Code</td>
<td>Course Title</td>
<td>Credit Hours</td>
<td>Degree Requirement</td>
<td>Prerequisite(s)</td>
<td>Description</td>
<td></td>
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</tr>
<tr>
<td>ACG 6346</td>
<td>Cost Accounting Theory</td>
<td>3</td>
<td>BA</td>
<td>ACC PR: ACG 3341 or equivalent</td>
<td>Deals with the evolution of cost accounting systems and their subsequent loss of relevance, and the impact of new management accounting philosophies (giving consideration to the influences of the international community) in the modern manufacturing environment.</td>
<td></td>
</tr>
<tr>
<td>ACG 6405</td>
<td>Accounting Systems Theory</td>
<td>3</td>
<td>BA</td>
<td>ACC PR: ACG 3401 or equivalent</td>
<td>Design, operation, and auditing of contemporary accounting systems, including file oriented and data base environments.</td>
<td></td>
</tr>
<tr>
<td>ACG 6457</td>
<td>Accounting Systems Audit, Control, and Security</td>
<td>3</td>
<td>BA</td>
<td>ACC PR: ACG 3401, ACG 6405 or equivalent.</td>
<td>An in-depth study of contemporary systems control security from an audit perspective. Course topics will include: IS audit standards, contemporary AIS technologies, and the development and maintenance of AIS integrity.</td>
<td></td>
</tr>
<tr>
<td>ACG 6476</td>
<td>Contemporary Issues in Accounting Information Systems</td>
<td>3</td>
<td>BA</td>
<td>ACC PR: ACG 6405 or equivalent</td>
<td>An in-depth study of current accounting information systems issues confronting the accounting profession. Graduate students research and study contemporary and emerging topics in the field.</td>
<td></td>
</tr>
<tr>
<td>ACG 6636</td>
<td>Contemporary Issues in Auditing</td>
<td>3</td>
<td>BA</td>
<td>ACC PR: ACG 4632</td>
<td>This course explores contemporary auditing issues and advanced topics concerning the changing role of the audit assurance function and changing audit processes. Topics include audit reporting, auditing in advanced computerized environments, audit judgment, quality control, and regulation of the profession.</td>
<td></td>
</tr>
<tr>
<td>ACG 6637</td>
<td>Contemporary Issues in Accounting Information Systems</td>
<td>3</td>
<td>BA</td>
<td>ACC PR: ACG 6405 or equivalent</td>
<td>An in-depth study of current accounting information systems issues confronting the accounting profession. Graduate students research and study contemporary and emerging topics in the field.</td>
<td></td>
</tr>
<tr>
<td>ACG 6875</td>
<td>Development of Accounting Thought</td>
<td>3</td>
<td>BA</td>
<td>ACC PR: 20 hours of accounting or CI</td>
<td>A study and evaluation of the development and evolution of current accounting theory and measurement concepts. An examination of financial accounting objectives, measurement models, and controversial issues.</td>
<td></td>
</tr>
<tr>
<td>ACG 6890</td>
<td>Measuring Organizational Effectiveness</td>
<td>3</td>
<td>BA</td>
<td>ACC PR: Graduate standing.</td>
<td>This course provides a graduate level introduction to financial and non-financial performance measures. The course considers how stakeholders of private and public sector organizations use financial and non-financial measures to access how well, and at what cost, these organizations are able to achieve strategic/operating goals and objectives.</td>
<td></td>
</tr>
<tr>
<td>ACG 6905</td>
<td>Independent Study</td>
<td>1-19</td>
<td>BA</td>
<td>ACC PR: CC. S/U.</td>
<td>Independent Study. Student must have a contract with an instructor.</td>
<td></td>
</tr>
<tr>
<td>ACG 6915</td>
<td>Directed Research</td>
<td>1-19</td>
<td>BA</td>
<td>ACC PR: GR. M.L, CC. S/U.</td>
<td>Use of case studies to explore the interaction of accounting and business topics that have been previously emphasized in separate courses.</td>
<td></td>
</tr>
<tr>
<td>ACG 6932</td>
<td>Integrative Accounting Seminar</td>
<td>3</td>
<td>BA</td>
<td>ACC PR: Enrolled in final semester of program</td>
<td>The course content will depend on student demand and instructor's interest.</td>
<td></td>
</tr>
<tr>
<td>ACG 6936</td>
<td>Selected Topics in Accounting</td>
<td>1-4</td>
<td>BA</td>
<td>ACC PR: CC</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Course Code</td>
<td>Course Title</td>
<td>Units</td>
<td>Type</td>
<td>ACC/EDV</td>
<td>PR</td>
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</tr>
<tr>
<td>ACG 7156</td>
<td>Seminar in Financial Accounting</td>
<td>3</td>
<td>BA</td>
<td>ACC</td>
<td>PR: ACG 6875 or CI</td>
<td></td>
</tr>
<tr>
<td>ACG 7356</td>
<td>Seminar in Management Accounting</td>
<td>3</td>
<td>BA</td>
<td>ACC</td>
<td>PR: ACG 6346 or CI</td>
<td></td>
</tr>
<tr>
<td>ACG 7415</td>
<td>Seminar In Accounting Information Systems</td>
<td>3</td>
<td>BA</td>
<td>ACC</td>
<td>PR: ACG 6405 or CI.</td>
<td></td>
</tr>
<tr>
<td>ACG 7646</td>
<td>Seminar in Auditing</td>
<td>3</td>
<td>BA</td>
<td>ACC</td>
<td>PR: ACG 6636 or equiv. or CI.</td>
<td></td>
</tr>
<tr>
<td>ACG 7936</td>
<td>Seminar On Special Topics In Accounting</td>
<td>1-4</td>
<td>BA</td>
<td>ACC</td>
<td>PR: CI.</td>
<td></td>
</tr>
<tr>
<td>ACG 7980</td>
<td>Dissertation in Accounting</td>
<td>2-21</td>
<td>BA</td>
<td>ACC</td>
<td>PR: Completion of comprehensive exams and CI.</td>
<td></td>
</tr>
<tr>
<td>ADE 6080</td>
<td>Adult Education in the United States</td>
<td>4</td>
<td>ED</td>
<td>EDV</td>
<td>A study of the adult education movement in the United States from its beginnings to the present lifelong learning enterprise it has become. Economic and cultural factors of the past are examined with a view toward implications for the future.</td>
<td></td>
</tr>
<tr>
<td>ADE 6160</td>
<td>Program Management in Adult Education</td>
<td>3</td>
<td>ED</td>
<td>EDV</td>
<td>An examination of the methods for establishing a productive adult education program, and the principles and procedures involved in designing, organizing, operating, and evaluating comprehensive adult education programs.</td>
<td></td>
</tr>
<tr>
<td>ADE 6161</td>
<td>Curriculum Construction in Adult Education</td>
<td>4</td>
<td>ED</td>
<td>EDV</td>
<td>Curriculum scope, the process of planning and organizing instructional programs with emphasis on task analysis and process evaluation. Concentrates on basic principles affecting the planning of Adult Education activities, including an overview of the human forces that both impinge on and motivate human behavior in an adult learning environment.</td>
<td></td>
</tr>
<tr>
<td>ADE 6197</td>
<td>Adult Basic Education</td>
<td>4</td>
<td>ED</td>
<td>EDV</td>
<td>An overview of adult basic education with an emphasis on current issues and problems of curriculum and instruction in program development and on culturally different adults.</td>
<td></td>
</tr>
<tr>
<td>ADE 6280</td>
<td>Administration in Local Adult Education Programs</td>
<td>4</td>
<td>ED</td>
<td>EDV</td>
<td>A study of the organization, selection of personnel, assignment of duties and responsibilities, and establishment of policies and procedures to accomplish the objectives of the local program within federal, state, and local requirements.</td>
<td></td>
</tr>
<tr>
<td>ADE 6287</td>
<td>Supervision of Local Adult Education Programs</td>
<td>4</td>
<td>ED</td>
<td>EDV</td>
<td>A study of the factors involved in the supervision of instruction including plans for teacher education, improvement of instruction, coordination of activities, and personnel relations.</td>
<td></td>
</tr>
<tr>
<td>ADE 6360</td>
<td>Methods of Teaching Adult Education</td>
<td>3</td>
<td>ED</td>
<td>EDV</td>
<td>An exploration of different methods, techniques, and materials available to help adults learn. Concentration on the process of designing effective learning experiences for adults and developing the competencies of self-directed</td>
<td></td>
</tr>
<tr>
<td>Course Code</td>
<td>Course Title</td>
<td>Credits</td>
<td>Required</td>
<td>Description</td>
<td></td>
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</tr>
<tr>
<td>ADE 6370</td>
<td>Trainers in Business and Industry</td>
<td>3</td>
<td>ED</td>
<td>EDV</td>
<td>A study of trainers in business and industry and acquisition of several key competencies required to fulfill this role.</td>
<td></td>
</tr>
<tr>
<td>ADE 6385</td>
<td>The Adult Learner</td>
<td>3</td>
<td>ED</td>
<td>EDV</td>
<td>An investigation of the physiological and psychological changes in the adult life span and the implications these have for adult learning capabilities. Concentration on the identification of principles of adult learning, differences between adults and youth as learners, and a review of research on adult learning.</td>
<td></td>
</tr>
<tr>
<td>ADE 6946</td>
<td>Practicum in Adult Education</td>
<td>1-6</td>
<td>ED</td>
<td>EDV</td>
<td>A problem-centered field study in the local community, school, government, office, social agency, business, or industry setting.</td>
<td></td>
</tr>
<tr>
<td>ADE 7388</td>
<td>Adult Development and Learning</td>
<td>3</td>
<td>ED</td>
<td>EDV PR: ADE 6385 or equiv.</td>
<td>This is an advanced, in-depth study of the distinctive characteristics of adult life and learning.</td>
<td></td>
</tr>
<tr>
<td>ADE 7910</td>
<td>Directed Research In Adult Education</td>
<td>1-4</td>
<td>ED</td>
<td>EDV PR: Advanced graduate level.</td>
<td>Directed research on topics related to adult education.</td>
<td></td>
</tr>
<tr>
<td>ADE 7937</td>
<td>Seminar In Adult Education</td>
<td>1-4</td>
<td>ED</td>
<td>EDV PR: Advanced graduate level.</td>
<td>Seminar in advanced topics in Adult Education.</td>
<td></td>
</tr>
<tr>
<td>ADE 7947</td>
<td>Advanced Internship: Adult Education</td>
<td>1-4</td>
<td>ED</td>
<td>EDV PR: Advanced graduate level only. S/U.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>AFA 6101</td>
<td>Social Construction of Race and Racism</td>
<td>3</td>
<td>AS</td>
<td>AFA</td>
<td>Examinations of the social construction of race, racism, racial identities and cross-racial relationships in the US from the colonial period to present.</td>
<td></td>
</tr>
<tr>
<td>AFA 6275</td>
<td>Black Women Writers</td>
<td>3</td>
<td>AS</td>
<td>AFA</td>
<td>Black Women Writers focuses on the literature of women of Africa and the African Diaspora. It examines the social, historical, artistic, political, economic, and spiritual lives of Africana women in context of a global community. The course is open to majors and non-majors and is cross-listed with Women's Studies, English and ISS.</td>
<td></td>
</tr>
<tr>
<td>AFA 6313</td>
<td>Black English</td>
<td>3</td>
<td>AS</td>
<td>AFA</td>
<td>Black English focuses on linguistic patterns among African Americans in the US, South Central America and the Caribbean. It examines language in relation to issues of domination, education, economics, social stratification, and political empowerment. It is open to majors and</td>
<td></td>
</tr>
</tbody>
</table>
### AFA 6905 Independent Study
1-19 AS
AFA
**PR:** CI, MI.

Course consists of advanced graduate research on Africana studies topics selected by student and professor. The topics vary. The course allows students to develop research skills and independent work disciplines.

### AFA 6910 Directed Research
1-12 AS
AFA
**PR:** CI, Departmental Approval.

Course consists of directed research on Africana studies topic selected by student and professor. The topics vary. The course allows students to develop research skills and independent work disciplines.

### AFA 6932 Topics in Africana Studies
3 AS
AFA

Variable topics course focusing on the history, culture, and lived experiences of African, African-American, and/or other peoples of African descent worldwide. Rpt. Up to 12 hours as topics may vary.

### AFA 6945 Internship
1-3 AS
AFA
**PR:** CI, Approval of Thesis Committee

This course involves working with a local agency (gov’t., NGO, private, etc.) on topic related to the theme of the MA degree, researching and documenting the process and preparing the data for writing the masters thesis.

### AFA 6971 Thesis
2-19 AS
AFA
**PR:** Department, Major professor and thesis committee approval.

Thesis.

### AMS 6002 American Lives
3 AS
AMS
**PR:** GS, CI.

Open to non-majors. An interdisciplinary approach to the study of autobiography. Examines the relationship between identity and community in classic American autobiographies. Utilizes autobiography as a resource of social and cultural history which provides insights regarding the complex interaction between a life, a mind, and a text.

### AMS 6156 Theories and Methods of Cultural Studies
3 AS
AMS
**PR:** GS.

This course examines the relationship between the arts and society by introducing various approaches to the study of literature, art, and culture that are of contemporary relevance to graduate students in the liberal arts and American Studies.

### AMS 6254 Decade in Depth
3 AS
AMS

Open to non-majors. Interdisciplinary analysis of American life during a specific cultural era.
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>AMS 6375</td>
<td>The American South</td>
<td>3</td>
<td>Open to non-majors. Examines the region since Reconstruction through architecture, art, literature, photography, music, history and interdisciplinary perspectives.</td>
</tr>
<tr>
<td>AMS 6805</td>
<td>Major Ideas in American Civilization</td>
<td>3</td>
<td>Open to non-majors. Investigates the role of one or more influential ideas in American culture, e.g., community, domesticity, democracy, slavery, progressivism, radical reform.</td>
</tr>
<tr>
<td>AMS 6901</td>
<td>Directed Readings in American Studies</td>
<td>1-3</td>
<td>Open to non-majors. A supervised program of intensive reading.</td>
</tr>
<tr>
<td>AMS 6915</td>
<td>Directed Research</td>
<td>1-12</td>
<td></td>
</tr>
<tr>
<td>AMS 6934</td>
<td>Selected Topics</td>
<td>1-3</td>
<td>Open to non-majors. Variable topics such as American Autobiography, Film in American Culture, and Photography in American Culture.</td>
</tr>
<tr>
<td>AMS 6938</td>
<td>Seminar in American Studies</td>
<td>3</td>
<td>Open to non-majors. Advanced interdisciplinary research. Topics include Popular Culture, Material Culture, Native American Culture.</td>
</tr>
<tr>
<td>AMS 6940</td>
<td>Internship in American Studies</td>
<td>1-3</td>
<td>A structured, out-of-class learning experience providing first hand, practical training in American Studies-related professional careers.</td>
</tr>
<tr>
<td>AMS 6971</td>
<td>Thesis: Master's</td>
<td>2-19</td>
<td></td>
</tr>
<tr>
<td>ANG 6115</td>
<td>Seminar In Archaeology</td>
<td>3</td>
<td>An advanced critical survey of archaeology emphasizing contributions to applied anthropology; required of all Public Archaeology students.</td>
</tr>
<tr>
<td>ANG 6196</td>
<td>Archaeology Theory and Current Issues</td>
<td>3</td>
<td>Methodology and theory in archaeology, analysis, interpretation of data.</td>
</tr>
<tr>
<td>ANG 6197</td>
<td>Cultural Resource Management</td>
<td>3</td>
<td>Current topical issues in Public Archaeology. Open to non-majors.</td>
</tr>
<tr>
<td>ANG 6198</td>
<td>Regional Problems in Methods of Public Archaeology</td>
<td>3</td>
<td>Contemporary problems in Public Archaeology in the context of a specific region. Open to non-majors.</td>
</tr>
<tr>
<td>ANG 6393</td>
<td>Anthropology, Contemporary Culture and the Media</td>
<td>3</td>
<td>Course entails the anthropological study of the role of media in contemporary culture. Selected issues include the cultural impact of images and gender/ethnic stereotypes. Special attention will be paid to ethnographic studies of media audiences, and a central theme will be the role of media in a global, multi-cultural context.</td>
</tr>
<tr>
<td>Course Code</td>
<td>Course Title</td>
<td>Credits</td>
<td>Attributes</td>
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<tr>
<td>ANG 6447</td>
<td>Selected Topics in Urban Anthropology</td>
<td>3</td>
<td>AS, ANT</td>
</tr>
<tr>
<td>ANG 6448</td>
<td>Regional Problems in Urban Anthropology</td>
<td>3</td>
<td>AS, ANT</td>
</tr>
<tr>
<td>ANG 6463</td>
<td>Social Epidemiology Applied Anthropology</td>
<td>3</td>
<td>AS, ANT</td>
</tr>
<tr>
<td>ANG 6465</td>
<td>Regional Problems in Medical Anthropology</td>
<td>3</td>
<td>AS, ANT</td>
</tr>
<tr>
<td>ANG 6468</td>
<td>Applied Anthropology and International Health</td>
<td>3</td>
<td>AS, ANT</td>
</tr>
<tr>
<td>ANG 6469</td>
<td>Selected Topics in Medical Anthropology</td>
<td>3</td>
<td>AS, ANT</td>
</tr>
<tr>
<td>ANG 6490</td>
<td>Seminar in Cultural Anthropology</td>
<td>3</td>
<td>AS, ANT</td>
</tr>
<tr>
<td>ANG 6495</td>
<td>Oral History and Life History: Approaches to Qualitative Research</td>
<td>3</td>
<td>AS, ANT</td>
</tr>
<tr>
<td>ANG 6511</td>
<td>Seminar in Physical Anthropology</td>
<td>3</td>
<td>AS, ANT</td>
</tr>
<tr>
<td>ANG 6766</td>
<td>Research Methods in Applied Anthropology</td>
<td>3</td>
<td>AS, ANT</td>
</tr>
<tr>
<td>ANG 6905</td>
<td>Independent Study</td>
<td>1-19</td>
<td>AS, S/U</td>
</tr>
<tr>
<td>Course Code</td>
<td>Course Title</td>
<td>Credits</td>
<td>Semester</td>
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</tr>
<tr>
<td>ANG 6915</td>
<td>Directed Research Internship</td>
<td>1-19 AS</td>
<td>ANT</td>
</tr>
<tr>
<td>ANG 6931</td>
<td>Master Proseminar in Applied Anthropology</td>
<td>3 AS</td>
<td>ANT</td>
</tr>
<tr>
<td>ANG 6971</td>
<td>Thesis: Master's</td>
<td>2-19 AS</td>
<td>ANT</td>
</tr>
<tr>
<td>ANG 7703</td>
<td>History and Theory of Applied Anthropology</td>
<td>3 AS</td>
<td>ANT</td>
</tr>
<tr>
<td>ANG 7704</td>
<td>Legal and Ethical Aspects of Applied Anthropology</td>
<td>3 AS</td>
<td>ANT</td>
</tr>
<tr>
<td>ANG 7905</td>
<td>Directed Individual Study</td>
<td>1-15 AS</td>
<td>ANT</td>
</tr>
<tr>
<td>ANG 7910</td>
<td>Directed Research</td>
<td>1-15 AS</td>
<td>ANT</td>
</tr>
<tr>
<td>ANG 7930</td>
<td>Principles of Human Social Organization</td>
<td>3 AS</td>
<td>ANT</td>
</tr>
<tr>
<td>ANG 7933</td>
<td>Selected Topics in Applied Anthropology</td>
<td>3 AS</td>
<td>ANT</td>
</tr>
<tr>
<td>ANG 7934</td>
<td>The Clientele of Applied Anthropology</td>
<td>3 AS</td>
<td>ANT</td>
</tr>
<tr>
<td>ANG 7936</td>
<td>Applied Anthropology and Human Problems</td>
<td>3 AS</td>
<td>ANT</td>
</tr>
</tbody>
</table>

- Emphasizing the process of doing "four-field" anthropology (biological, archeological, linguistic, and cultural), conceptualizing research questions, identifying, gathering and analyzing data. How application and theory are integrated and how this integration is vital to the conduct of good anthropology with a variety of anthropological ideas.

- The history and theoretical development of Applied Anthropology, including cultural resources management are discussed in the context of the overall development of Anthropology as a discipline and profession.

- Development and nature of professional ethics in Applied Anthropology, including legal and quasi-legal regulations pertaining to human subjects research, cultural resources management, historic preservation, privacy, and freedom of information. Open to non-majors.

- Critical review of specific approaches to the development, management, and analysis of sociocultural data. Emphasis on qualitative and quantitative applications of field oriented research designs. Open to non-majors.

- An advanced reading program of selected topics in Applied Anthropology under the supervision of an anthropology faculty member. A written contract describing requirements must be signed by the student and faculty member prior to registration.

- An advanced directed research program in a selected topic of Applied Anthropology under the supervision of an anthropology faculty member.

- A critical cross-cultural examination of principles that underlie the organization of human associations such as kinship, residence, ethnicity, reciprocity, hierarchy, stratification at levels from domestic to multinational organization.

- An overview of Applied Anthropology in its relation to a major mode of public/private activity, e.g., planning, clinical practice, policy process, or advocacy. Open to non-majors.

- Review of the literature and practice of Applied Anthropology focusing on a specific segment or interest group within contemporary society. Typical offerings include: ethnic minorities, age categories, communities, the poor, migrants, public/private organizations, and industry. Open to non-majors.

- Examination of specific problem areas of social significance and policy relevance. Typical offerings include: substance abuse, disease, mental health, international development, urban design, and education. Open to non-majors.
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<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
<th>Units</th>
<th>Department</th>
<th>Prerequisites</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>ANG 7938</td>
<td>Doctoral Proseminar in Applied Anthropology</td>
<td>3</td>
<td>AS</td>
<td>ANT</td>
<td></td>
<td>Emphasizing the process of doing &quot;four-field&quot; anthropology (biological, archeological, linguistic, and cultural), conceptualizing research questions, identifying, gathering and analyzing data. How application and theory are integrated and how this integration is vital to the conduct of good anthropology with a variety of anthropological ideas.</td>
</tr>
<tr>
<td>ANG 7940</td>
<td>Doctoral Internship in Applied Anthropology</td>
<td>1-15</td>
<td>AS</td>
<td>ANT</td>
<td>PR: Admission to Doctoral Candidacy, CI. S/U.</td>
<td>Supervised training in practicing Anthropology in a non-academic setting, focusing on the applications of Anthropology. A written contract describing requirements must be signed by the student, the faculty advisor, and the agency supervisor prior to registration.</td>
</tr>
<tr>
<td>ARC 6176</td>
<td>Advanced Computer Technology</td>
<td>3</td>
<td>AR</td>
<td>ARC</td>
<td>PR: ARC 5175, CC.</td>
<td>Elective course dealing with further development of CAD skills, focusing on three-dimensional modeling. A wide range of software programs is included which explores painting and shading, surface textures, 3D detail studies, perspectives, and oblique representations.</td>
</tr>
<tr>
<td>ARC 6287</td>
<td>Professional Practice I</td>
<td>3</td>
<td>AR</td>
<td>ARC</td>
<td>PR: ARC 5216, ARC 5364, CC.</td>
<td>Introduction and overview of professional practice, emphasizing business, organization, management, and marketing. Legal, economic, and ethical aspects of project procurement, design services, and delivery. Contracts, owner-contractor-architect roles and responsibilities.</td>
</tr>
<tr>
<td>ARC 6288</td>
<td>Professional Practice II</td>
<td>3</td>
<td>AR</td>
<td>ARC</td>
<td>PR: ARC 6287, CC.</td>
<td>Continued overview of professional practice, emphasizing legal, economic, and ethical aspects of practice. Project planning, funding, administration, risk management, and performance. Topics include: estimating, financing, life-cycle cost analysis, information resources and management.</td>
</tr>
<tr>
<td>ARC 6364</td>
<td>Advanced Design A</td>
<td>6</td>
<td>AR</td>
<td>ARC</td>
<td>PR: ARC 5363, CP: ARC 5588, ARC 5467.</td>
<td>Application of orderly design processes to building projects of moderate complexity and scale. Continued investigation of the relationship between human behavior and the environment. Analysis and integration of site relationships into the development of design solutions. Legal aspects of zoning, building codes, and regulations regarding access for accessibility, fire escape, etc.</td>
</tr>
<tr>
<td>ARC 6365</td>
<td>Advanced Design B</td>
<td>6</td>
<td>AR</td>
<td>ARC</td>
<td>PR: ARC 5363, CP: ARC 5588, ARC 5467.</td>
<td>Investigation of the interaction between user requirements, environmental determinants, site and urban context conditions, technological factors, and design intentions in the development of design solutions for projects of medium scale and complexity. The analysis, design, and coordination of the various resulting systems, including structural, circulation, service networks, space zoning and use, environmental control systems at the interface between interior and exterior of a building. Representation of these relationships and systems in diagrams and models, and their manifestation in design and construction details.</td>
</tr>
<tr>
<td>ARC 6366</td>
<td>Advanced Design C</td>
<td>6</td>
<td>AR</td>
<td>ARC</td>
<td>PR: ARC 5363, CP: ARC 5588, ARC 5467.</td>
<td>Design of multi-purpose buildings of medium to large scale and complexity. Issues of community and neighborhood design as they relate to the design of buildings. Restoration and adaptive re-use of existing historic buildings. Focus on thinking through as well as documenting the complete building system and process.</td>
</tr>
<tr>
<td>Course Code</td>
<td>Course Title</td>
<td>Credits</td>
<td>Pre-Requisites</td>
<td>Description</td>
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</tbody>
</table>
| ARC 6367    | Advanced Design D                                | 6       | AR                                   | PR: ARC 6364, ARC 6365, ARC 6366
Comprehensive studio problems emphasizing the integration of disciplinary and professional skills through the formulation of architectural propositions grounded in critical, speculative, and creative research. |
| ARC 6397    | Introduction to Urban Design Theory, Methods & Processes | 3       | AR                                   | PR: CC.
Introduction to the concepts, methods, and manifestations of urban design and city-building. Focus on both traditional city and modern city conditions. Student will gain a basic understanding of the design structure, order, function and character of cities and towns and assess various qualitative aspects of these conditions. Relationships between processes of architecture, landscape architecture, site planning, preservation and other relevant acts of city-building will be considered as referential points-of-view in assessing certain complexities of urban morphology. |
| ARC 6471    | Advanced Topics in Materials and Methods         | 3       | AR                                   | PR: ARC 5175, ARC 5587, and ARC 5588, CC.
Analysis and design of advanced construction assemblies. Specific focus on application and integration of multiple systems and components. Research in new materials and methods. Documentation and model and analysis. |
| ARC 6481    | Design Development                               | 4       | AR                                   | PR: ARC 5467, ARC 5588, ARC 5689, ARC 6365
Summary course in the technology sequence in which construction, structural, and environmental technology systems are integrated within architectural design projects. Emphasis is placed on the poetic as well as the technical aspects of building systems. |
| ARC 6692    | Advanced Topics In Environmental Technology      | 3       | AR                                   | PR: ARC 5175, ARC 5689, CC.
Analysis and preliminary design of advanced environmental control systems; specific focus on architectural applications; integration with structural and construction systems. Research of special aspects of ET systems, computer simulation and analysis techniques. |
| ARC 6942    | Urban Design Practicum                           | 3-6     | AR                                   | "Hands-on" experience in both theoretical and practical aspects of actual projects on-going at the Florida Center for Urban Design and Research.   |
| ARC 6970    | Master's Project Planning                        | 3       | AR                                   | PR: Two of ARC 6364, 6365, 6366
The Master's Project (ARC 6971) will call for the student's independent selection, organization, programming and design of a complex project. This course aims at preparing students for these tasks by exploring potential topics for master's projects and theses, introducing the concepts of architectural facility programming, methods of gathering, organization, analysis and evaluation of information needed for the project, and by studying the process of writing proposals for the master's project that clearly communicate the problem or task, goals and objectives, the proposed approach and procedure, the expected outcome, as well as the work plan and schedule for such a project and the time and resources required. At the end of the course, students will have prepared an acceptable master's project proposal which will allow them to proceed with the master's project during the following term. |
| ARC 6971    | Master's Project                                 | 6       | AR                                   | PR: ARC 6970.
The Master's Thesis represents the most significant project in the student's academic preparation for a career in architecture, and the demonstration of the student's ability to synthesize learned skills into a convincing independent work of professional quality. The Master's Thesis will typically be a major design project, although the format of a more traditionally academic thesis is also possible. In either case, the student will work with a committee composed of advisors of his/her choice in selecting the topic of the project, organizing and carrying out the work in an independent and self-paced manner. The outcome
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
<th>Department</th>
<th>Description</th>
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</thead>
<tbody>
<tr>
<td>ARE 6262</td>
<td>Management Design for Art Institutions</td>
<td>3</td>
<td>ART</td>
<td>Principles of administration and supervision of art programs in the school and art institutions.</td>
</tr>
<tr>
<td>ARE 6358</td>
<td>Art for the Elementary School Teacher</td>
<td>3</td>
<td>ART</td>
<td>Exploration of various materials and techniques in relationship to current theories about art and the intellectual, creative, emotional, and aesthetic growth of children.</td>
</tr>
<tr>
<td>ARE 6746</td>
<td>Basis of Inquiry Into Artistic Mind</td>
<td>3</td>
<td>ART</td>
<td>An in-depth study of the contemporary basis of inquiry into artistic mind including a multidisciplined review of literature and research in art education. Includes a visual inquiry project.</td>
</tr>
<tr>
<td>ARE 6844</td>
<td>Experiential and Theoretical Basis of Artistic Mind</td>
<td>3</td>
<td>ART</td>
<td>Experiential and theoretical explorations into past and contemporary philosophies and practices in art and art education.</td>
</tr>
<tr>
<td>ARE 6944</td>
<td>Field Work in Art Education</td>
<td>1-4</td>
<td>EDA</td>
<td>For student with degree-seeking status. Supervised participation in activities related to art education in community centers, nonschool arts program, planned workshop and research.</td>
</tr>
<tr>
<td>ARH 6055</td>
<td>Art History</td>
<td>4</td>
<td>ART</td>
<td>Registration by contract only.</td>
</tr>
<tr>
<td>ARH 6798</td>
<td>Seminar In Art History</td>
<td>4</td>
<td>ART</td>
<td>Var. Specialized topics in art history.</td>
</tr>
<tr>
<td>ARH 6865</td>
<td>Current Historiography: Renaissance</td>
<td>4</td>
<td>ART</td>
<td>This course explores current perspectives on problems of Renaissance historiography.</td>
</tr>
<tr>
<td>ARH 6866</td>
<td>Current Historiography: Baroque-Rococo</td>
<td>4</td>
<td>ART</td>
<td>This course explores current perspectives on problems of Baroque and Rococo historiography.</td>
</tr>
<tr>
<td>ARH 6867</td>
<td>Current Historiography: 19th Century</td>
<td>4</td>
<td>ART</td>
<td>This course explores current perspectives on problems in the historiography of 19th Century Art.</td>
</tr>
<tr>
<td>ARH 6868</td>
<td>Current Historiography: 20th Century</td>
<td>4</td>
<td>ART</td>
<td>Cultural and intellectual history of modern art</td>
</tr>
<tr>
<td>ARH 6891</td>
<td>Paris Art History</td>
<td>4</td>
<td>ART</td>
<td>PR: At least 8 hours art history at the undergraduate level This course will explore issues central to the history and criticism of art through the rich and visual culture that Paris offers. The goal of this course is to provide students with an experience of the cultural life of the city through an exploration of its major art collections, monuments, art collections and historical sites. Thematically-organized topic will include: art and national identity, patronage, orientalism, the birth of the avant-garde and the role of the museum in</td>
</tr>
<tr>
<td>Course Code</td>
<td>Course Title</td>
<td>Credits</td>
<td>Department</td>
<td>Prerequisites/Lab Fee</td>
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<tr>
<td>ART 6391C</td>
<td>Drawing</td>
<td>4</td>
<td>ART</td>
<td>PR-CL Registration by contract only.</td>
</tr>
<tr>
<td>ART 6423C</td>
<td>Lithography</td>
<td>4</td>
<td>ART</td>
<td>PR-CL Registration by contract only.</td>
</tr>
<tr>
<td>ART 6449C</td>
<td>Intaglio</td>
<td>4</td>
<td>ART</td>
<td>PR-CL Registration by contract only.</td>
</tr>
<tr>
<td>ART 6581C</td>
<td>Painting</td>
<td>4</td>
<td>ART</td>
<td>PR-CL Registration by contract only.</td>
</tr>
<tr>
<td>ART 6688</td>
<td>Electronic Media</td>
<td>4</td>
<td>ART</td>
<td>PR-CL, proof of proficiency in media.</td>
</tr>
<tr>
<td>ART 6791C</td>
<td>Ceramics</td>
<td>4</td>
<td>ART</td>
<td>PR-CL Registration by contract only.</td>
</tr>
<tr>
<td>ART 6792C</td>
<td>Sculpture</td>
<td>4</td>
<td>ART</td>
<td>Advanced problems in the various techniques of sculpture. Emphasis on individual creative expression. Repeatable.</td>
</tr>
<tr>
<td>ART 6811</td>
<td>Paris Art Studio</td>
<td>3</td>
<td>ART</td>
<td>PR-Dept Approval Required</td>
</tr>
<tr>
<td>ART 6907</td>
<td>Independent Study</td>
<td>1-19</td>
<td>ART</td>
<td>PR-CL Registration by contract only. Achieved candidacy. S/U.</td>
</tr>
<tr>
<td>ART 6911</td>
<td>Directed Research</td>
<td>1-19</td>
<td>ART</td>
<td>PR-CL Registration by contract only. Achieved candidacy.</td>
</tr>
<tr>
<td>ART 6937</td>
<td>Graduate Instruction Methods</td>
<td>1-4</td>
<td>ART</td>
<td>S/U. CI. Registration by contract only. Special course to be used primarily for the training of graduate teaching assistants.</td>
</tr>
<tr>
<td>Course Code</td>
<td>Course Title</td>
<td>Credits</td>
<td>Prerequisites</td>
<td>Description</td>
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<tr>
<td>ART 6940</td>
<td>Selected Topics In Art</td>
<td>1-4 VP</td>
<td>ART</td>
<td>Variable credit depending upon the scope and magnitude of the work agreed to by the student and the responsible member of the faculty.</td>
</tr>
<tr>
<td>ART 6956</td>
<td>Masters Exhibition and Documentation</td>
<td>2-19 VP</td>
<td>ART</td>
<td>A Masters Exhibition and final documentation focused on the development of a body of work in the visual arts.</td>
</tr>
<tr>
<td>ART 6971</td>
<td>Thesis: Master's</td>
<td>2-19 VP</td>
<td>ART</td>
<td>Registration by contract only.</td>
</tr>
<tr>
<td>BCH 6627</td>
<td>Metabolic Basis of Disease</td>
<td>2 MD</td>
<td>MSG</td>
<td>The course will deal with the genetic, molecular, and biochemical basis of human diseases.</td>
</tr>
<tr>
<td>BCH 6888</td>
<td>Bioinformatics</td>
<td>AS</td>
<td>CHM</td>
<td>An introduction to computer software applications for research in Biochemistry and Molecular Biology. Emphasis on database searching and submission, data analysis and graphical presentation, DNA and protein sequence analysis and molecular modeling. Lec./Pro.</td>
</tr>
<tr>
<td>BCH 6935</td>
<td>Scientific Writing and Ethics</td>
<td>2 AS</td>
<td>CHM</td>
<td>Analysis and applications of biofluids, including nonNewtonian fluids and particulate systems, and bioheat transfer, including energy balances, heat and temperature regulation, clinical situations, and modeling. Open to nonmajors with CI.</td>
</tr>
<tr>
<td>BME 6034</td>
<td>Biofluid Mechanics and Bioheat Transfer</td>
<td>3 EN</td>
<td>ECH</td>
<td>Physical and chemical properties of biomaterials, failure mechanisms, performance in vivo, interfacial phenomena and biocompatibility, including host response to implants. Also will discuss the regulatory aspects of biomaterials.</td>
</tr>
<tr>
<td>BME 6107</td>
<td>Biomaterials and Biocompatibility</td>
<td>3 EN</td>
<td>EGX</td>
<td>Biomechanical properties of hard and soft tissues, including measurement procedures, influences on properties (gender, aging, physical conditioning, disease processes), tissue repair, and implant devices. Open to nonmajors with CI.</td>
</tr>
<tr>
<td>BME 6335</td>
<td>Tissue Biomechanics</td>
<td>3 EN</td>
<td>ECH</td>
<td>Biomechanical properties of hard and soft tissues, including measurement procedures, influences on properties (gender, aging, physical conditioning, disease processes), tissue repair, and implant devices. Open to nonmajors with CI.</td>
</tr>
<tr>
<td>BMS 6100C</td>
<td>Gross Anatomy</td>
<td>5-10 MD</td>
<td>MSG</td>
<td>Emphasis of biochemistry, cell biology, and genetics that have immediate relevance for clinical medicine while also providing a fundamental foundation of understanding that will permit lifelong learning. The pathogenesis of disease will be understood based on a practical understanding gained from the students address in this course.</td>
</tr>
<tr>
<td>BMS 6110</td>
<td>Microscopic Anatomy</td>
<td>5-10 MD</td>
<td>MSG</td>
<td>PR: Anatomy Students only.</td>
</tr>
<tr>
<td>BMS 6206</td>
<td>Molecular, Cellular, Genetic Basis of Medicine</td>
<td>1-20 MD</td>
<td>MSG</td>
<td>PR: Anatomy Students only.</td>
</tr>
<tr>
<td>Course Code</td>
<td>Course Title</td>
<td>Units</td>
<td>Faculty</td>
<td>Type</td>
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<tr>
<td>BOT 6916</td>
<td>Independent Study</td>
<td>1-19</td>
<td>AS</td>
<td>BIO</td>
</tr>
<tr>
<td>BOT 6971</td>
<td>Thesis: Master's</td>
<td>2-19</td>
<td>AS</td>
<td>BIO</td>
</tr>
<tr>
<td>BSC 6907</td>
<td>Independent Study</td>
<td>1-19</td>
<td>AS</td>
<td>BIO</td>
</tr>
<tr>
<td>BSC 6910</td>
<td>Directed Research</td>
<td>1-19</td>
<td>AS</td>
<td>BIO</td>
</tr>
<tr>
<td>BSC 6930</td>
<td>Lectures in Contemporary Biology</td>
<td>1</td>
<td>AS</td>
<td>BIO</td>
</tr>
<tr>
<td>BSC 6931</td>
<td>Development and Physiology Seminar</td>
<td>1</td>
<td>AS</td>
<td>BIO</td>
</tr>
<tr>
<td>BSC 6932</td>
<td>Selected Topics in Biology</td>
<td>1-4</td>
<td>AS</td>
<td>BIO</td>
</tr>
<tr>
<td>BSC 6935</td>
<td>Graduate Seminar in Biology</td>
<td>1</td>
<td>AS</td>
<td>BIO</td>
</tr>
<tr>
<td>BSC 6936</td>
<td>Scientific Grant Writing</td>
<td>3</td>
<td>AS</td>
<td>BIO</td>
</tr>
<tr>
<td>BSC 6945</td>
<td>Graduate Instruction Methods</td>
<td>1-3</td>
<td>AS</td>
<td>BIO</td>
</tr>
<tr>
<td>BSC 7912</td>
<td>Directed Research</td>
<td>1-19</td>
<td>AS</td>
<td>BIO</td>
</tr>
<tr>
<td>BSC 7980</td>
<td>Dissertation: Doctoral</td>
<td>2-19</td>
<td>AS</td>
<td>BIO</td>
</tr>
<tr>
<td>BTE 6944</td>
<td>Practicum: Business Education</td>
<td>3-6</td>
<td>ED</td>
<td>EDV</td>
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</table>

Independent study in which students must have a contract with an instructor.

This Biology lecture series includes a diversity of contemporary topics including: molecular regulatory mechanics, evolutionary genetics, organismal physiology and community ecology.

A critical examination and discussion of current literature of physiology and development of living organism, including cells.

Course provides instruction on becoming a successful grant writer as well as understanding the grant proposal writing and review process. Responsibilities of the principle investigator for compliance, fiscal matters, and scientific management of the funded grant will also be covered with guest lecturers from the Division of Sponsored Research.

Special course to be used primarily for the training of teaching assistants.

A problem-centered field study in the local community, school, government, office, social agency, business, or industry.
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<tr>
<th>Course Code</th>
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<th>Credits</th>
<th>Department</th>
<th>Prerequisite(s)</th>
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</thead>
<tbody>
<tr>
<td>CAP 6100</td>
<td>Human Computer Interface</td>
<td>3</td>
<td>ESB</td>
<td>PR: CL</td>
</tr>
<tr>
<td>CAP 6415</td>
<td>Computer Vision</td>
<td>3</td>
<td>ESB</td>
<td>PR: CAP 5400.</td>
</tr>
<tr>
<td>CAP 6615</td>
<td>Neural Networks</td>
<td>3</td>
<td>ESB</td>
<td>PR: CAP 5600.</td>
</tr>
<tr>
<td>CAP 6638</td>
<td>Geometric/Statistical Pattern Recognition Technology</td>
<td>3</td>
<td>ESB</td>
<td>PR: CL</td>
</tr>
<tr>
<td>CAP 6672</td>
<td>Robot Intelligence and Computer Vision</td>
<td>3</td>
<td>ESB</td>
<td>PR: COP 2400 or equiv.</td>
</tr>
<tr>
<td>CCJ 6050</td>
<td>Pro Seminar in Criminology</td>
<td>1</td>
<td>CJP</td>
<td>PR: CL. Should be taken during the first semester.</td>
</tr>
<tr>
<td>CCJ 6285</td>
<td>Law, Crime and Justice</td>
<td>4</td>
<td>CJP</td>
<td>PR: CI</td>
</tr>
<tr>
<td>CCJ 6406</td>
<td>Theory, Practice, and Research in Law Enforcement</td>
<td>3</td>
<td>CJP</td>
<td>PR: CI</td>
</tr>
<tr>
<td>CCJ 6605</td>
<td>Theoretical Approaches to Criminal Behavior</td>
<td>4</td>
<td>CJP</td>
<td>PR: CI</td>
</tr>
<tr>
<td>CCJ 6705</td>
<td>Research Methods in Criminology</td>
<td>4</td>
<td>CJP</td>
<td>PR: CCJ 6920, CI</td>
</tr>
<tr>
<td>CCJ 6706</td>
<td>Quantitative Analysis in Criminology I</td>
<td>4</td>
<td>CJP</td>
<td>PR: CCJ 6705, CL.</td>
</tr>
<tr>
<td>CCJ 6707</td>
<td>Quantitative Analysis in Criminology II</td>
<td>4</td>
<td>CJP</td>
<td>PR: CCJ 6706, CI.</td>
</tr>
<tr>
<td>CCJ 6708</td>
<td>Quantitative Analysis in Criminology III</td>
<td>3</td>
<td>CJP</td>
<td>PR: CCJ 6707 or equivalent.</td>
</tr>
</tbody>
</table>

Introduction to the design and evaluation of the interface between a computer based application and a human user.

Techniques for description and recognition of objects, use of stereo, texture, and motion information for scene segmentation and description, consistent labeling and matching, use of knowledge and planning in computer vision.

Defines models of artificial neural networks, compares these models, and investigates the relationship of neural network learning to other symbolic learning methods.

An introduction to robotic systems with emphasis on the computational aspects of robot control. Topics for discussion: overview of the robotics field, analysis of robot arm kinematics and coordinate transformation, real-time computer control of robot arms, and computer vision. Practical experience in programming robotic systems will be included.

Provides a forum for presentation and discussion of research ideas by faculty, students, and guests, with a view toward the development of thesis topics.

An exposition of historical and contemporary legal principles, procedures, and issues as reflected in Constitutional provision, statutes, and case law.

This issue-oriented course explores the relationships among theory, practice, and research as these are reflected in the problems and challenges that confront law enforcement.

An introduction to, and comparison of, major historical and contemporary theories that seek to explain criminal behavior.

Introduction to the basic methods of criminological research; overviews philosophy of science, research ethics, research design issues such as sampling and measurement, and methods of data collection, including survey, experimental, and evaluation research.

Introduction to data management utilizing computer statistical packages and elementary statistical techniques used in criminological research: descriptive and inferential statistics, group comparisons, measures of association, linear regression.

Intermediate-level data analysis and statistical techniques applied to problems in criminology. Emphasis on multivariate techniques, including multiple regression, path analysis, and nonlinear models.

This course familiarizes students with advanced multivariate linear and nonlinear statistical procedures appropriate for analyzing criminological data.
<table>
<thead>
<tr>
<th>Course Code</th>
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<th>Credits</th>
<th>Type</th>
<th>Department</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>CCJ 6709</td>
<td>Qualitative Methods in Criminology</td>
<td>3</td>
<td>AS</td>
<td>CJP</td>
<td>PR: CCJ 6705. An in-depth analysis and discussion of several qualitative perspectives and corresponding methodological designs as they pertain to criminological research and inquiry.</td>
</tr>
<tr>
<td>CCJ 6716</td>
<td>Evaluation Research in Criminology</td>
<td>3</td>
<td>AS</td>
<td>CJP</td>
<td>PR: CCJ 6705. This course provides basic and advanced methods of evaluation research in a real world environment, paying particular attention to the idiosyncrasies of working with and within the Criminal Justice System. Grant preparation, survey techniques, and research design will be covered along with the policies, pressures, and peculiarities associated with evaluating agencies.</td>
</tr>
<tr>
<td>CCJ 6905</td>
<td>Directed Independent Study</td>
<td>1-12</td>
<td>AS</td>
<td>CJP</td>
<td>Majors only. Independent study in which student must have contract with instructor.</td>
</tr>
<tr>
<td>CCJ 6910</td>
<td>Directed Research</td>
<td>1-19</td>
<td>AS</td>
<td>CJP</td>
<td>PR: CI. S/U. This course is designed to review and analyze the major issues and dilemmas that confront corrections today, including overcrowding, inmate rights, privatization, control of gangs, control of inmates, and the availability or programs and services. Attention will also focus on the strategies and/or controversies associated with these issues.</td>
</tr>
<tr>
<td>CCJ 6930</td>
<td>Current Issues in Corrections</td>
<td>3</td>
<td>AS</td>
<td>CJP</td>
<td>PR: CI. Repeatable with different subject matter. This course is designed to provide an in-depth analysis of specific theoretical issues in criminology.</td>
</tr>
<tr>
<td>CCJ 6931</td>
<td>Seminar in Criminological Theory</td>
<td>3</td>
<td>AS</td>
<td>CJP</td>
<td>PR: CCJ 6605. Repeatable with different subject matter. Analysis and discussion of topics of major concern in criminology and criminal justice that are not covered in regular courses.</td>
</tr>
<tr>
<td>CCJ 6935</td>
<td>Topics in Criminology and Criminal Justice</td>
<td>3</td>
<td>AS</td>
<td>CJP</td>
<td>PR: CI.</td>
</tr>
<tr>
<td>CCJ 6971</td>
<td>Thesis: Master's</td>
<td>2-19</td>
<td>AS</td>
<td>CJP</td>
<td>PR: CI.</td>
</tr>
<tr>
<td>CCJ 6974</td>
<td>Area Project</td>
<td>1-12</td>
<td>AS</td>
<td>CJP</td>
<td>PR: GS in the Department and CI. Required of students not using the thesis option. Maximum of 3 hours toward the Master's degree. S/U.</td>
</tr>
<tr>
<td>CCJ 7910</td>
<td>Advanced Research</td>
<td>1-12</td>
<td>AS</td>
<td>CJP</td>
<td>Doctoral Students only. Course is designed to give students an opportunity to conduct independent research under the supervision of a faculty member. May be repeated.</td>
</tr>
<tr>
<td>CCJ 7980</td>
<td>Doctoral Dissertation</td>
<td>2-12</td>
<td>AS</td>
<td>CJP</td>
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</tr>
<tr>
<td>CEG 6015</td>
<td>Advanced Geotechnical Topics</td>
<td>3</td>
<td>EN</td>
<td>EGX</td>
<td>PR: CEG 4011, CEG 4011L, CEG 5205. Advanced concepts of shear strength and consolidation of soils; slope stability, nonlinear and secondary consolidation, numerical methods.</td>
</tr>
<tr>
<td>Course Code</td>
<td>Course Title</td>
<td>Credits</td>
<td>Units</td>
<td>Prerequisites</td>
<td>Course Description</td>
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<tr>
<td>CEG 6065</td>
<td>Soil Dynamics</td>
<td>3</td>
<td>EN</td>
<td>EGX</td>
<td>PR: CEG 4011, CEG 4011L, CEG 4012. Fundamentals of vibrations, wave propagation, design of foundations, retaining walls and slopes to resist vibrations, liquefaction of soils.</td>
</tr>
<tr>
<td>CEG 6415</td>
<td>Seepage and Subsurface Drainage</td>
<td>3</td>
<td>EN</td>
<td>EGX</td>
<td>CR: CEG 4011 or CI. Design of underdrains, wells, soil filters, fabric filters, and dewatering systems with special emphasis on case studies.</td>
</tr>
<tr>
<td>CES 6103</td>
<td>Experimental Stress Analysis</td>
<td>3</td>
<td>EN</td>
<td>EGX</td>
<td>PR: EGN 3331, EGN 3373. This course will provide the tools of research necessary to design experiments and/or instrumentation schemes for directed studies. It is intended for structural and geotechnical engineering graduates conducting master's or doctoral research.</td>
</tr>
<tr>
<td>CES 6107C</td>
<td>Advanced Mechanics Of Materials II</td>
<td>3</td>
<td>EN</td>
<td>EGX</td>
<td>PR: CES 5105C. Continuation of CES 5105C. Structural stability of beam-columns and frames, calculus of variations and energy methods, introduction to viscoelasticity and plasticity.</td>
</tr>
<tr>
<td>CES 6326</td>
<td>Design of Concrete Bridges</td>
<td>3</td>
<td>EN</td>
<td>EGX</td>
<td>PR: CES 4702, CES 5715. Bridge Classification, AASHTO loads and load combinations, load distribution, design of typical superstructures and substructures for concrete and prestressed bridges.</td>
</tr>
<tr>
<td>CES 6586</td>
<td>Design of Structures to Resist Natural Hazards</td>
<td>3</td>
<td>EN</td>
<td>EGX</td>
<td>Study of natural hazards (wind, earthquakes &amp; ocean waves) and their interaction with structures. Use of exact and approximate methods of analysis, computer modeling, and design provisions for structures to resist the aforementioned loads.</td>
</tr>
<tr>
<td>CES 6609</td>
<td>Advanced Steel Design</td>
<td>3</td>
<td>EN</td>
<td>EGX</td>
<td>PR: CES 4605. Advanced topics in steel design. Topics covered include connection design, torsion of wide range sections, and optimum structural design.</td>
</tr>
<tr>
<td>CES 6716</td>
<td>Design of Continuous Post-Tensioned Structures</td>
<td>3</td>
<td>EN</td>
<td>EGX</td>
<td>Methods of analysis and design of post-tensioned statically indeterminate structures. Emphasis will be on the design of two-way slabs for floor systems using the equivalent frame method and load balancing.</td>
</tr>
<tr>
<td>CES 6726</td>
<td>Advanced Concrete Design</td>
<td>3</td>
<td>EN</td>
<td>EGX</td>
<td>PR: CES 4702, majors only. Advanced topics in concrete designs. Topics include torsion, two way floor systems, composite construction, slabs on grade, and deep beams.</td>
</tr>
<tr>
<td>CGN 6906</td>
<td>Independent Study</td>
<td>1-19</td>
<td>EN</td>
<td>EGX</td>
<td>PR: CL S/U. Independent study in which students must have a contract with an instructor.</td>
</tr>
<tr>
<td>Course Code</td>
<td>Course Title</td>
<td>Credits</td>
<td>Type</td>
<td>Department</td>
<td>Prerequisites</td>
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<tr>
<td>CGN 6915</td>
<td>Directed Research</td>
<td>1-19 EN</td>
<td>EN</td>
<td>EGX</td>
<td>PR: GS, CI. S/U.</td>
</tr>
<tr>
<td>CGN 6933</td>
<td>Special Topics in Civil and Environmental</td>
<td>1-4 EN</td>
<td>EN</td>
<td>EGX</td>
<td>PR: CI</td>
</tr>
<tr>
<td>CGN 6941</td>
<td>Graduate Instruction Methods</td>
<td>1-5 EN</td>
<td>EN</td>
<td>EGX</td>
<td>PR: GS, CC. Majors only.</td>
</tr>
<tr>
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<td>Special course to be used primarily for the</td>
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<td></td>
<td>training of graduate teaching assistants.</td>
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</tr>
<tr>
<td>CGN 6971</td>
<td>Thesis: Master's</td>
<td>2-19 EN</td>
<td>EN</td>
<td>EGX</td>
<td>PR: GS, CI. Majors only.</td>
</tr>
<tr>
<td>CGN 7980</td>
<td>Dissertation Doctoral</td>
<td>2-19 EN</td>
<td>EN</td>
<td>EGX</td>
<td>PR: GS, CI, Admission to</td>
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<td>Candidatey. majors only. S/U.</td>
</tr>
<tr>
<td>CGS 6210</td>
<td>Microcomputer Hardware Systems for Education</td>
<td>3 ED</td>
<td>ED</td>
<td>EDK</td>
<td>PR: Computer literacy</td>
</tr>
<tr>
<td>CHM 6150</td>
<td>Advanced Analytical Chemistry</td>
<td>3 AS</td>
<td>AS</td>
<td>CHM</td>
<td>PR: CI</td>
</tr>
<tr>
<td>CHM 6250</td>
<td>Advanced Organic Chemistry I: Synthesis</td>
<td>3 AS</td>
<td>AS</td>
<td>CHM</td>
<td>PR: CHM 5225 or CI.</td>
</tr>
<tr>
<td>CHM 6260</td>
<td>Advanced Organic Chemistry II: Physical-</td>
<td>3 AS</td>
<td>AS</td>
<td>CHM</td>
<td>PR: CHM 5225 or CI.</td>
</tr>
<tr>
<td></td>
<td>Organic</td>
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<tr>
<td>CHM 6280</td>
<td>Advanced Organic Chemistry III: Natural Products</td>
<td>3 AS</td>
<td>AS</td>
<td>CHM</td>
<td>PR: CHM 5225 or CI.</td>
</tr>
<tr>
<td>CHM 6460</td>
<td>Statistical Thermodynamics</td>
<td>3 AS</td>
<td>AS</td>
<td>CHM</td>
<td>PR: CI</td>
</tr>
<tr>
<td>CHM 6480</td>
<td>Quantum Chemistry</td>
<td>3 AS</td>
<td>AS</td>
<td>CHM</td>
<td>PR: CI</td>
</tr>
</tbody>
</table>

**CGS 6210 Microcomputer Hardware Systems for Education:***
This course focuses on the development of an understanding of microcomputer hardware that allows individuals to teach as well as make decisions concerning purchase, repair, and appropriate use. Topics include: basic concepts of digital electronics, the operation of a digital computer system, major categories of computer peripherals, historical development of electronic computers, and selection and maintenance of computers in an educational setting.

**CHM 6150 Advanced Analytical Chemistry:***
A study of complete analytical process, including sample handling, separations, the analysis step, and statistical interpretation of data. Emphasis placed on separations and statistics. Lec.

**CHM 6250 Advanced Organic Chemistry I: Synthesis:***
Detailed consideration of modern synthetic methods. Lec.

**CHM 6260 Advanced Organic Chemistry II: Physical-Organic:***
Organic reaction mechanisms emphasizing the interpretation of experimental data. Lec.

**CHM 6280 Advanced Organic Chemistry III: Natural Products:***
A study of any of several of the following topics: terpenes, steroids, vitamins, alkaloids, prohyrins, purine, and antibiotics.

**CHM 6460 Statistical Thermodynamics:***
Application of statistical mechanics to the thermodynamics; relation of molecular structure to thermodynamic properties. Lec.

**CHM 6480 Quantum Chemistry:***
Introduction to elementary quantum mechanism. Atomic structure and spectra. Lec.
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
<th>Type</th>
<th>Prerequisite</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHM 6650</td>
<td>Structural Inorganic Chemistry</td>
<td>3</td>
<td>AS</td>
<td>CHM</td>
<td>Modern theories of bonding and structure of inorganic compounds, including coordination theory, stereo-chemistry, solution equilibria, kinetics, mechanisms of reactions, and use of physical and chemical methods. Lec.</td>
</tr>
<tr>
<td>CHM 6907</td>
<td>Independent Study</td>
<td>1-19</td>
<td>AS</td>
<td>CHM</td>
<td>Independent study in which students must have a contract with an instructor.</td>
</tr>
<tr>
<td>CHM 6935</td>
<td>Graduate Seminars in Chemistry</td>
<td>1</td>
<td>AS</td>
<td>CHM</td>
<td>Required every semester (when offered) for all students enrolled in Chemistry graduate program. Requires participation in and attendance at the weekly departmental seminar.</td>
</tr>
<tr>
<td>CHM 6936</td>
<td>Chemistry Colloquium</td>
<td>1</td>
<td>AS</td>
<td>CHM</td>
<td>Frequent (usually weekly) small-group analysis of current developments.</td>
</tr>
<tr>
<td>CHM 6938</td>
<td>Selected Topics in Chemistry</td>
<td>1-3</td>
<td>AS</td>
<td>CHM</td>
<td>Representative titles taught include: Symmetry and Group Theory, Photochemical Kinetics, Quantum Mechanical Calculations, Advanced Chemical Thermodynamics, Reaction Mechanisms, Advanced Instrumentation, Separations and Characterizations, Spectroscopy, etc.</td>
</tr>
<tr>
<td>CHM 6946</td>
<td>Graduate Instruction Methods</td>
<td>1-4</td>
<td>AS</td>
<td>CHM</td>
<td>Special course for the training of teaching assistants.</td>
</tr>
<tr>
<td>CHM 6971</td>
<td>Thesis: Master's</td>
<td>2-19</td>
<td>AS</td>
<td>CHM</td>
<td>Independent study in which students must have a contract with an instructor. Requires completed contract prior to enrollment.</td>
</tr>
<tr>
<td>CHM 6973</td>
<td>Directed Research</td>
<td>1-19</td>
<td>AS</td>
<td>CHM</td>
<td>Required every semester (when offered) for all students enrolled in Chemistry graduate program. Requires participation in and attendance at the weekly departmental seminar.</td>
</tr>
<tr>
<td>CHM 7820</td>
<td>Directed Research</td>
<td>1-19</td>
<td>AS</td>
<td>CHM</td>
<td>Independent study in which students must have a contract with an instructor. Requires completed contract prior to enrollment.</td>
</tr>
<tr>
<td>CHM 7980</td>
<td>Dissertation: Doctoral</td>
<td>2-19</td>
<td>AS</td>
<td>CHM</td>
<td>Independent study in which students must have a contract with an instructor. Requires completed contract prior to enrollment.</td>
</tr>
<tr>
<td>CIS 6900</td>
<td>Independent Study</td>
<td>1-19</td>
<td>EN</td>
<td>ESB</td>
<td>Computer science engineering project that may be taken by graduate students in place of Master's thesis. Requires completed contract prior to enrollment.</td>
</tr>
<tr>
<td>CIS 6910</td>
<td>Computer Science Graduate Project</td>
<td>3</td>
<td>EN</td>
<td>ESB</td>
<td>Special course to train graduate research assistants. Var. Rpt. to a total of 4 credits. Requires completed contract prior to enrollment.</td>
</tr>
<tr>
<td>CIS 6911</td>
<td>Graduate Research Methods</td>
<td>1-4</td>
<td>EN</td>
<td>ESB</td>
<td>Special course to train graduate research assistants. Var. Rpt. to a total of 4 credits. Requires completed contract prior to enrollment.</td>
</tr>
<tr>
<td>Course Code</td>
<td>Course Title</td>
<td>Credits</td>
<td>Division</td>
<td>Prerequisites</td>
<td>Notes</td>
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<tr>
<td>CIS 6930</td>
<td>Special Topics</td>
<td>3</td>
<td>EN</td>
<td>ESB PR: CL</td>
<td></td>
</tr>
<tr>
<td>CIS 6940</td>
<td>Graduate Instruction Methods</td>
<td>1-4</td>
<td>EN</td>
<td>ESB PR: Majors only. S/U.</td>
<td>Special course to train graduate teaching assistants.</td>
</tr>
<tr>
<td>CIS 6971</td>
<td>Thesis: Master's</td>
<td>2-19</td>
<td>EN</td>
<td>ESB PR: GS, majors only. S/U.</td>
<td>Requires completed contract prior to enrollment.</td>
</tr>
<tr>
<td>CIS 7910</td>
<td>Directed Research</td>
<td>1-19</td>
<td>EN</td>
<td>ESB PR: GR. Ph.D. level, majors only. S/U.</td>
<td></td>
</tr>
<tr>
<td>CIS 7980</td>
<td>Dissertation: Doctoral</td>
<td>2-19</td>
<td>EN</td>
<td>ESB PR: Admission to Doctoral Candidacy.</td>
<td></td>
</tr>
<tr>
<td>CJC 6020</td>
<td>Theory, Practice, and Research in Corrections</td>
<td>3</td>
<td>AS</td>
<td>CJP PR: CI</td>
<td>Examination of the interrelationships between theory and practice in corrections, as these are affected by empirical research and systematic program evaluation.</td>
</tr>
<tr>
<td>CLP 6166</td>
<td>Psychopathology</td>
<td>3</td>
<td>AS</td>
<td>PSY PR: Admission to graduate program in Psychology or CI</td>
<td>Exploration of current approaches to the understanding of pathological behavior and implications for theories of personality. A survey of treatment methods is included.</td>
</tr>
<tr>
<td>CLP 6438</td>
<td>Psychological Assessment</td>
<td>3</td>
<td>AS</td>
<td>PSY PR: CL</td>
<td>Courses cover theory, research, and applications of psychological assessment in areas, such as interviewing, intellectual and cognitive functioning, neuropsycho-diagnostics, and personality testing.</td>
</tr>
<tr>
<td>CLP 6937</td>
<td>Topics in Clinical Psychology</td>
<td>1-3</td>
<td>AS</td>
<td>PSY PR: CL</td>
<td>Courses on topics, such as humanistic psychology, community psychology, and clinical neuropsychology.</td>
</tr>
<tr>
<td>CLP 7188</td>
<td>Clinical Psychology Interventions</td>
<td>3</td>
<td>AS</td>
<td>PSY PR: CL</td>
<td>Study of the theoretical, empirical, and applied foundations of the major systems of therapeutic intervention.</td>
</tr>
<tr>
<td>CLP 7379</td>
<td>Graduate Seminar in Clinical-Community Psychology</td>
<td>1-3</td>
<td>AS</td>
<td>PSY PR: CL</td>
<td>Seminars on topics, such as psychopathology, community psychology, clinical issues, personality, and developmental psychology.</td>
</tr>
<tr>
<td>COM 6001</td>
<td>Graduate Study in Communication</td>
<td>3</td>
<td>AS</td>
<td>SPE</td>
<td>Required of all M.A. candidates. Open to any USF graduate students.</td>
</tr>
<tr>
<td>COM 6025</td>
<td>Health Communication</td>
<td>3</td>
<td>AS</td>
<td>SPE PR: GS.</td>
<td>Application of communication theory and research to the health context including provider-patient communication, health information campaigns, and health beliefs and behavior. Special attention to the value issues in health communication.</td>
</tr>
<tr>
<td>Course Code</td>
<td>Course Title</td>
<td>Units</td>
<td>Type</td>
<td>Prerequisites</td>
<td>Description</td>
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<tr>
<td>COM 6121</td>
<td>Organizational Communication</td>
<td>3</td>
<td>AS</td>
<td>SPE</td>
<td>A study of communication theory and behavior within organizational settings: role of communication, communication climates, communication networks, leadership.</td>
</tr>
<tr>
<td>COM 6345</td>
<td>Contemporary Cultural Studies</td>
<td>3</td>
<td>AS</td>
<td>SPE</td>
<td>Examines theoretical issues and interpretive approaches for exploring questions of knowledge, identity, experience, meaning and value in modern culture through the study of communication.</td>
</tr>
<tr>
<td>COM 6400</td>
<td>Communication Theory</td>
<td>3</td>
<td>AS</td>
<td>SPE</td>
<td>An examination of communication theory through selected reading in the works of major theorists past and present.</td>
</tr>
<tr>
<td>COM 6605</td>
<td>Media Studies</td>
<td>3</td>
<td>AS</td>
<td>SPE</td>
<td>Study of the impact of mass and mediated forms of communication on individuals, groups, societies, and cultures. Several theoretical and critical perspectives are considered.</td>
</tr>
<tr>
<td>COM 7325</td>
<td>Seminar in Communication Research Methods</td>
<td>3</td>
<td>AS</td>
<td>SPE</td>
<td>Emphasis on quantitative, qualitative, and historical-critical approaches to communication research.</td>
</tr>
<tr>
<td>COM 7933</td>
<td>Seminar in Communication Studies</td>
<td>3</td>
<td>AS</td>
<td>SPE</td>
<td>Variable topics course.</td>
</tr>
<tr>
<td>COP 6611</td>
<td>Operating Systems</td>
<td>3</td>
<td>EN</td>
<td>ESB</td>
<td>Operating systems functions and design, resource management, protection systems, process communication, and deadlocks.</td>
</tr>
<tr>
<td>COP 6621</td>
<td>Programming Languages and Translation</td>
<td>3</td>
<td>EN</td>
<td>ESB</td>
<td>Grammars and languages, symbols, strings, syntax, parsing, the design of a compiler, storage organization and symbol tables, translator writing systems.</td>
</tr>
<tr>
<td>COT 6405</td>
<td>Introduction to the Theory of Algorithms</td>
<td>3</td>
<td>EN</td>
<td>ESB</td>
<td>Analysis techniques for algorithms. Characterizing algorithms in terms of recurrence relations, solutions of recurrence relations, upper and lower bounds. Graph problems, parallel, algorithms, NP completeness and approximation algorithms, with relationship to practical problems.</td>
</tr>
<tr>
<td>CPO 6036</td>
<td>Politics of Developing Areas</td>
<td>3</td>
<td>AS</td>
<td>POL</td>
<td>Advanced study of ideologies, politics, political institutions, and the socio-economic conditions that influence them in developing nations.</td>
</tr>
<tr>
<td>CPO 6091</td>
<td>Seminar in Comparative Politics</td>
<td>3</td>
<td>AS</td>
<td>POL</td>
<td>Extensive examination of the major theories and approaches used in the study of Comparative Politics. Seminar format.</td>
</tr>
<tr>
<td>CRW 6130</td>
<td>Fiction Writing</td>
<td>3</td>
<td>AS</td>
<td>ENG</td>
<td>A study of the process of fiction writing and the artistic demands associated with its forms, from microfiction to the novel.</td>
</tr>
<tr>
<td>CRW 6132</td>
<td>The Craft of Fiction</td>
<td>3</td>
<td>AS</td>
<td>ENG</td>
<td>A study in the forms and technique of fiction writing. Students will examine how novels and stories are constructed, analyze craft (plotting, characterization, point of view) and the relationship of form and craft, and study the variety of approaches to storytelling (realism, magic realism, minimalism, and metafiction).</td>
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<tr>
<td>Course Code</td>
<td>Course Title</td>
<td>Credits</td>
<td>Department</td>
<td>Title</td>
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<td>CRW 6236</td>
<td>Nonfiction Writing</td>
<td>3</td>
<td>AS ENG</td>
<td>An exploration of the different types of nonfiction writing, such as memoir, travel, nature, commentary, book review, essay, and biography.</td>
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<tr>
<td>CRW 6331</td>
<td>Poetry Writing</td>
<td>3</td>
<td>AS ENG</td>
<td>A study of the process of poetry writing and the demands associated with its form, both free verse and metrical.</td>
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<tr>
<td>CRW 6352</td>
<td>The Craft of Poetry</td>
<td>3</td>
<td>AS ENG PR: Dept. Approval Required.</td>
<td>An intensive examination of established schools of poetic writing; their themes, imagery, and approach to subject matter. Students also will write and submit original poetry for private and group constructive evaluation.</td>
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<tr>
<td>CWR 6235</td>
<td>Free Surface Flow</td>
<td>3</td>
<td>EN EGX PR: CWR 4202 or CI, majors only.</td>
<td>Fundamental and applied aspects of free surface flow, including river hydraulics, canal flow, and open channel design.</td>
<td></td>
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<tr>
<td>CWR 6239</td>
<td>Waves and Beach Protection</td>
<td>3</td>
<td>EN EGX PR: CWR 6820, majors only.</td>
<td>A study of the fundamentals of shoreline dynamics including distribution of wave energy, motion of beach sand, stable configurations and protective measures.</td>
<td></td>
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<tr>
<td>CWR 6305</td>
<td>Urban Hydrology</td>
<td>3</td>
<td>EN EGX PR: CI, majors only.</td>
<td>A study of the quantity and quality problems and solution techniques associated with urban runoff.</td>
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<tr>
<td>CWR 6533</td>
<td>Water Quality Modeling</td>
<td>3</td>
<td>EN EGX PR: CI, majors only.</td>
<td>This course will develop the fundamental principals and concepts of water quality modeling and apply water quality models in a variety of contexts. The mathematical representations of environmental transport and transformation processes will be elucidated. Models of different complexity will be applied to a variety of environmental contexts.</td>
<td></td>
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<tr>
<td>CWR 6534</td>
<td>Coastal and Estuary Modeling</td>
<td>3</td>
<td>EN EGX PR: CI, majors only.</td>
<td>Digital modeling of coastal and estuary systems, currents tide heights, sediment transport, erosion, data collection, temperature distribution, source and sinks. Special emphasis on Florida regions.</td>
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<tr>
<td>CWR 6535</td>
<td>Hydrologic Models</td>
<td>3</td>
<td>EN EGX PR: CI, majors only.</td>
<td>A study of the theoretical principles of hydrologic modeling and an examination of various numerical hydrologic models available. Students will be required to develop and apply computer models.</td>
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<tr>
<td>CWR 6538</td>
<td>Advanced Hydrologic Models</td>
<td>3</td>
<td>EN EGX PR: CWR 6535 and GLY 6739.</td>
<td>To present the theoretical and applied concepts of advanced hydrologic modeling and especially integrated surface water/ground water modeling and to examine various numerical hydrologic models used in engineering practice.</td>
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<tr>
<td>CWR 6820</td>
<td>Coastal Waves And Structures</td>
<td>3</td>
<td>EN EGX PR: CI, majors only.</td>
<td>Fundamentals of wave motion and the mutual interaction of waves and structures. A design project is included.</td>
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<tr>
<td>DEP 6058</td>
<td>Developmental Psychology</td>
<td>3</td>
<td>AS PSY PR: Admission to graduate program in Psychology or CI.</td>
<td>Basic survey of research and theory in human developmental processes.</td>
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<td>DEP 6136</td>
<td>Language Development</td>
<td>3</td>
<td>AS PSY PR: Admission to graduate program in Psychology or Communication Sciences and Disorders or CI.</td>
<td>Explores the course of and processes underlying normal language development. Presents data and theory on phonological, semantic, syntactic, and pragmatic development, with emphasis on recent research.</td>
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<td>ECH 6105</td>
<td>Advanced Thermodynamics I</td>
<td>3</td>
<td>EN</td>
<td>ECH</td>
<td>Selected topics in classical and irreversible thermodynamics.</td>
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<tr>
<td>ECH 6107</td>
<td>Selected Topics in Advanced Thermodynamics</td>
<td>3</td>
<td>EN</td>
<td>ECH</td>
<td>Advanced selected topics in Ch.E. Thermodynamics such as molecular and statistical thermo, adv. phase and chemical equilibria, etc.</td>
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<tr>
<td>ECH 6230</td>
<td>Advanced Mass Transfer</td>
<td>3</td>
<td>EN</td>
<td>ECH, ECH 5285 or equiv.</td>
<td>Advanced topics in mass transfer, including the mathematical description and solution of homogeneous and heterogeneous reacting systems, unsteady state, simultaneous heat and/or fluid transfer, particulate processes, and interfacial transport.</td>
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<tr>
<td>ECH 6285</td>
<td>Advanced Transport Phenomena</td>
<td>3</td>
<td>EN</td>
<td>ECH</td>
<td>Formulation of flux equations for fluid, heat &amp; mass transport. Development &amp; resolution of unsteady state and multidimensional models in various co-ordinate systems. Analytical &amp; numerical techniques to solve the resulting equations will be presented.</td>
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<td>ECH 6400</td>
<td>Bioseparations</td>
<td>3</td>
<td>EN</td>
<td>ECH</td>
<td>Design and analysis of bioseparation processes, including crystallization, membrane separations, chromatography, liquid-liquid extraction, electrophoresis, and emerging technologies. Open to non-majors with CI.</td>
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<tr>
<td>ECH 6412</td>
<td>Processes Analysis and Modeling</td>
<td>3</td>
<td>EN</td>
<td>ECH</td>
<td>Computer-controlled data acquisition and analysis aimed at development and evaluation of empirical and physical models of chemical and mechanical engineering processes.</td>
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<tr>
<td>ECH 6417</td>
<td>Bioseparations</td>
<td>3</td>
<td>EN</td>
<td>ECH</td>
<td>Design and analysis of bioseparation processes, including crystallization, membrane separations, chromatography, liquid-liquid extraction, electrophoresis, and emerging technologies. Open to non-majors with CI.</td>
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<tr>
<td>ECH 6515</td>
<td>Reacting Systems</td>
<td>3</td>
<td>EN</td>
<td>ECH, ECH 4415C or CI</td>
<td>Economic factors in the design of chemical reactors. Simulation of complex reacting systems.</td>
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<tr>
<td>ECH 6616</td>
<td>Computer-Aided Process Engineering I</td>
<td>3</td>
<td>EN</td>
<td>ECH</td>
<td>Plant and process design with emphasis on computer-aided design.</td>
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<tr>
<td>ECH 6670</td>
<td>Mathematical Methods for Chemical Engineering</td>
<td>3</td>
<td>EN</td>
<td>ECH</td>
<td>The main objective of the course is to enable deeper level of understanding of chemical and physical changes matter undergo through mathematical modeling and analysis. The objective could be achieved through mechanistic modeling, knowledge of numerical and analytical methods of solving such models, and familiarity with computational tools.</td>
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<tr>
<td>ECH 6749</td>
<td>Biomaterials and Biocompatibility</td>
<td>3</td>
<td>EN</td>
<td>ECH</td>
<td>Physical and chemical properties of biomaterials, failure mechanisms, performance in vivo, interfactual phenomena and biocompatibility, including host response to implants. Also will discuss the regulatory aspects of biomaterials.</td>
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<td>ECH PR: GR. ML. S/U.</td>
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<td>ECH 6907</td>
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<td>ECH PR: GR. S/U. Independent study in which students must have a contract with an instructor.</td>
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<td>Special Problems I</td>
<td>1-3 EN</td>
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<td>ECH PR: CC. S/U. Special course to be used for training of graduate teaching assistants.</td>
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<td>ECH PR: CC. S/U. Special course to be used for training of graduate research assistants.</td>
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<td>ECH 6971</td>
<td>Thesis: Master's</td>
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<td>ECH PR: Admission to Candidacy</td>
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<td>ECO 6114</td>
<td>Managerial Economics</td>
<td>3 BA</td>
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<td>MBA Theory of economic behavior of households and firms, consumer behavior, demand analysis, production and cost, factor markets.</td>
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<td>ECO 6115</td>
<td>Microeconomics</td>
<td>3 BA</td>
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<td>MBA Macroeconomic behavior of consumers, producers, and resource suppliers, price determination in output and factor markets, general market equilibrium.</td>
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<td>ECO 6204</td>
<td>Global Economic Environment of Business</td>
<td>3 BA</td>
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<td>MBA Determination of prices, employment, and output in domestic and international settings.</td>
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<td>ECO 6205</td>
<td>Macroeconomic Theory and Policy</td>
<td>3 BA</td>
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<td>ECN PR: For Master of Accountancy students only. Determination of income, employment, wages, prices, and interest rates, contemporary policy issues, long-run economic growth.</td>
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<td>ECO 6305</td>
<td>History of Economic Thought</td>
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<td>EDF 6812</td>
<td>Seminar in Comparative Education</td>
<td>4</td>
<td>ED</td>
<td>EDF</td>
</tr>
<tr>
<td>EDF 6838</td>
<td>Issues in Multicultural Education</td>
<td>4</td>
<td>ED</td>
<td>EDF</td>
</tr>
<tr>
<td>EDF 6885</td>
<td>Internship in Community Counseling</td>
<td>6 or 3</td>
<td>ED</td>
<td>EDG</td>
</tr>
<tr>
<td>EDF 6906</td>
<td>Independent Study: Educational Foundations</td>
<td>1-6</td>
<td>ED</td>
<td>EDF</td>
</tr>
<tr>
<td>EDF 6935</td>
<td>Wellness Programming Seminar</td>
<td>2</td>
<td>ED</td>
<td>EDF</td>
</tr>
<tr>
<td>EDF 6938</td>
<td>Selected Topics</td>
<td>1-4</td>
<td>ED</td>
<td>EDF</td>
</tr>
<tr>
<td>EDF 6944</td>
<td>Field Experience</td>
<td>1-4</td>
<td>ED</td>
<td>EDF</td>
</tr>
<tr>
<td>EDF 6971</td>
<td>Thesis: Masters/Educational Specialist</td>
<td>2-19</td>
<td>ED</td>
<td>EDQ</td>
</tr>
<tr>
<td>EDF 7143</td>
<td>Measurement of Cognitive Functioning in Childhood and Adolescence</td>
<td>4</td>
<td>ED</td>
<td>EDF</td>
</tr>
</tbody>
</table>

Activities can be employed to correct sexism in schools.

Developments in communication as a process of social change as it affects students, teachers, and traditional school arrangements.

Estimates of future demands upon schools; critique of current paradigms, techniques, and literature.

Comparison of contemporary educational systems of selected countries with that of the United States.

Policies and practices in education in selected countries.

Lecture/discussion course, open to both majors and non-majors; address both fundamental concepts and timely issues in multicultural education and working with culturally diverse students.

Field experience involving one semester of full-time participation or two semesters of part-time participation in the counseling and related activities of a public or private agency providing mental health services to the community.

Independent study in which students must have a contract with an instructor.

This course familiarizes students with the array of extant programs to facilitate wellness and prevent problems that often affect college students. Through review and critique of such programs, participants will be able to design and administer wellness programs in their professional roles.

Exploration and demonstration of knowledge in an area of special interest to the student and/or in an area for which the student needs to demonstrate a higher level of competence. Designed to fit the needs of each student.

Demonstrate skills in the practice of the student's specialty. Objectives will be defined by the needs of the individual student.

Investigation of theories and measurement of cognitive functioning in childhood and adolescence.
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Title</th>
<th>Credits</th>
<th>College</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>EDF 7145</td>
<td>Cognitive Issues in Instruction</td>
<td>4</td>
<td>EDF</td>
<td>PR: Admission to doctoral program and EDF 6215. Selected cognitive models of intelligence, memory, problem solving, thinking, and motivation applied to instructional strategies.</td>
</tr>
<tr>
<td>EDF 7167</td>
<td>Experiential Learning: Theory and Methods</td>
<td>3</td>
<td>EDF</td>
<td>Theory and methods of experiential learning in both formal and organizational contexts.</td>
</tr>
<tr>
<td>EDF 7227</td>
<td>Topics in Behavior Analysis and Automated Instruction</td>
<td>1-12</td>
<td>EDF</td>
<td>PR: EDF 6215 or EDF 6217 or Advanced Graduate Standing, CI Seminar in experimental analysis of functional relationships between behavior and relevant environmental variables. Interpretation of complex human behavior and formulation of procedures which expedite instruction in educational procedures for computer delivery.</td>
</tr>
<tr>
<td>EDF 7239</td>
<td>Supervised Experience in College Teaching</td>
<td>2</td>
<td>EDF</td>
<td>A seminar to increase knowledge and competencies in college instruction. Students must have advanced graduate standing, be currently teaching a college level course, willing to be observed, and able to discuss ongoing classroom practices and problems. Open to all doctoral level Education majors, other doctoral students if space available. S/U optional.</td>
</tr>
<tr>
<td>EDF 7408</td>
<td>Statistical Analysis For Educational Research II</td>
<td>4</td>
<td>EDQ</td>
<td>PR: EDF 6407 or equiv. or DPR. Theory and application of statistical procedures to problems in education: (1) ANOVA-factorial; ANCOVA; (2) multiple correlation and regression -- a specific technique and a general approach to data analysis. Coordinated use of computer included.</td>
</tr>
<tr>
<td>EDF 7410</td>
<td>Design Of Systematic Studies In Education</td>
<td>4</td>
<td>EDQ</td>
<td>PR: EDF 6407, EDF 7408 or equiv. or DPR. Theory and application of major design models to systematic inquiry, from experimental to naturalistic models. Nature and role of sampling in systematic studies.</td>
</tr>
<tr>
<td>EDF 7437</td>
<td>Advanced Educational Measurement I</td>
<td>3</td>
<td>EDQ</td>
<td>PR: EDF 6432 or equiv.; EDF 6407 or equiv. Logical, empirical, and statistical models of measurement processes. Examination of issues relative to scaling with a focus on reliability of measurement. Critique of available instruments for measurement in psychology and education. Examination of issues relative to scaling with a focus on reliability of measurement. Critique of available instruments for measurement in psychology and education.</td>
</tr>
<tr>
<td>EDF 7438</td>
<td>Advanced Educational Measurement II</td>
<td>4</td>
<td>EDQ</td>
<td>PR: EDF 7437 or DPR. Scaling techniques in educational and psychological measurement. Item analytic theories and practices. Validation theory, and construction and validation of instruments for measurements in education.</td>
</tr>
<tr>
<td>EDF 7477</td>
<td>Qualitative Research in Education Part I</td>
<td>4</td>
<td>EDQ</td>
<td>PR: Advanced GS or DPR. First of two sequenced seminars examining the theoretical and pragmatic aspects of conducting qualitative research in educational settings.</td>
</tr>
<tr>
<td>EDF 7478</td>
<td>Qualitative Research in Education Part II</td>
<td>4</td>
<td>EDQ</td>
<td>PR: Advanced GS and EDF 7477. Second of two sequenced seminars examining the theoretical and pragmatic aspects of conducting qualitative research.</td>
</tr>
<tr>
<td>EDF 7484</td>
<td>Statistical Analysis For Educational Research III</td>
<td>3</td>
<td>EDQ</td>
<td>PR: EDF 7408 or DPR. Theory and application of selected multivariate statistical procedures, including Canonical Correlation, Discriminate Analysis, Multivariate Analysis of Variance, Factor Analysis, and Path Analysis.</td>
</tr>
<tr>
<td>EDF 7485</td>
<td>Theory and Practice of Education Evaluation</td>
<td>3</td>
<td>EDQ</td>
<td>PR: EDF 7493, DPR. Comparative analysis of contemporary evaluation approaches; theory and scientific basis of evaluation; social and political impact of evaluation on educational decision making; and the design, implementation and reporting of evaluation studies.</td>
</tr>
<tr>
<td>Course Code</td>
<td>Title</td>
<td>Credits</td>
<td>Units</td>
<td>Department</td>
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</tr>
<tr>
<td>EDF 7488</td>
<td>Problems in Educational Data Analysis</td>
<td>2</td>
<td>ED</td>
<td>PR: EDF 7408 or DPR.</td>
</tr>
<tr>
<td>EDF 7530</td>
<td>History of Higher Education in the United States</td>
<td>3</td>
<td>ED</td>
<td>PR: EDF 6517, its equivalent, or permission of the instructor.</td>
</tr>
<tr>
<td>EDF 7586</td>
<td>Classics in Educational Research</td>
<td>4</td>
<td>ED</td>
<td>PR: GS; EDF 6517, EDF 6544, EDF 6606, or CI.</td>
</tr>
<tr>
<td>EDF 7649</td>
<td>Analysis of Educational Issues</td>
<td>3</td>
<td>ED</td>
<td>PR: CI.</td>
</tr>
<tr>
<td>EDF 7655</td>
<td>Organization Development in Educational Institutions</td>
<td>4</td>
<td>ED</td>
<td>PR: EDF 6517, EDF 6544, EDF 6606, or DPR.</td>
</tr>
<tr>
<td>EDF 7682</td>
<td>Education in Metropolitan Areas</td>
<td>4</td>
<td>ED</td>
<td>PR: EDF 6517, EDF 6544, EDF 6606, or DPR.</td>
</tr>
<tr>
<td>EDF 7910</td>
<td>Directed Research in Measurement and Evaluation</td>
<td>1-19</td>
<td>EDQ</td>
<td>PR: CI.</td>
</tr>
<tr>
<td>EDF 7934</td>
<td>Seminar in Social Foundations of Education</td>
<td>4</td>
<td>ED</td>
<td>PR: GS; EDF 6517, EDF 6544, or EDF 6606, or DPR.</td>
</tr>
<tr>
<td>EDF 7940</td>
<td>Practicum In Educational Planning, Evaluation, And Development</td>
<td>1-8</td>
<td>EDQ</td>
<td>PR: EDF 7408, EDF 7493. S/U.</td>
</tr>
<tr>
<td>EDF 7980</td>
<td>Dissertation</td>
<td>2-30</td>
<td>EDQ</td>
<td>PR: Admission to Candidacy.</td>
</tr>
<tr>
<td>EDG 6285</td>
<td>School Curriculum Improvement</td>
<td>3</td>
<td>ED</td>
<td>PR: Workshop for the improvement of the curriculum of an elementary or secondary school, CC.</td>
</tr>
<tr>
<td>EDG 6329</td>
<td>Creative Drama in a Developmental Context</td>
<td>3</td>
<td>VP</td>
<td>EDD</td>
</tr>
</tbody>
</table>

**Notes:**
- ED: Education
- EDF: Educational Foundations
- EDC: Educational Development
- EDQ: Education and Quantitative Analysis
- G: General Studies
- DPR: Doctoral Program Requirements
- CI: Critical Issues
- CC: Continuing Enrollment
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
<th>Department</th>
<th>Prerequisites</th>
</tr>
</thead>
<tbody>
<tr>
<td>EDG 6344</td>
<td>Project T.E.A.C.H. (Teacher Effectiveness and Classroom Handling)</td>
<td>3</td>
<td>ED</td>
<td>EDR PR: CC.</td>
</tr>
<tr>
<td>EDG 6415</td>
<td>Project P.R.I.D.E. (Professional Refinements In Developing Effectiveness)</td>
<td>3</td>
<td>ED</td>
<td>EDE</td>
</tr>
<tr>
<td>EDG 6417</td>
<td>Teaching Through Learning Channels</td>
<td>3</td>
<td>EDE</td>
<td></td>
</tr>
<tr>
<td>EDG 6627</td>
<td>Foundations Of Curriculum And Instruction</td>
<td>3</td>
<td>EDC</td>
<td>PR: EDG 4620.</td>
</tr>
<tr>
<td>EDG 6693</td>
<td>Problems in Curriculum and Instruction: Elementary</td>
<td>1-3</td>
<td>EDC</td>
<td>PR: EDG 4620, EDG 6627.</td>
</tr>
<tr>
<td>EDG 6694</td>
<td>Problems In Curriculum And Instruction: Middle School</td>
<td>1-3</td>
<td>EDC</td>
<td>PR: EDG 4620, EDG 6627.</td>
</tr>
<tr>
<td>EDG 6695</td>
<td>Problems In Curriculum Instruction: Secondary</td>
<td>1-3</td>
<td>EDC</td>
<td>PR: EDG 4620, EDG 6627.</td>
</tr>
<tr>
<td>EDG 6906</td>
<td>Independent Study</td>
<td>1-19</td>
<td>EDV</td>
<td>S/U</td>
</tr>
<tr>
<td>EDG 6931</td>
<td>Selected Topics in Education</td>
<td>1-4</td>
<td>EDC</td>
<td>PR: DPR.</td>
</tr>
<tr>
<td>EDG 6935</td>
<td>Seminar in Curriculum Research</td>
<td>3</td>
<td>EDE</td>
<td>PR: EDG 6481.</td>
</tr>
<tr>
<td>EDG 6947</td>
<td>Internship</td>
<td>1-9</td>
<td>EDC</td>
<td>PR: DPR. S/U only.</td>
</tr>
<tr>
<td>EDG 6971</td>
<td>Thesis: Masters/Education Specialist</td>
<td>2-19</td>
<td>EDC</td>
<td>S/U. Master's students only. Interdisciplinary Studies only.</td>
</tr>
<tr>
<td>Code</td>
<td>Course Title</td>
<td>Credits</td>
<td>Type</td>
<td>Description</td>
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</tr>
<tr>
<td>EDG 7692</td>
<td>Issues in Curriculum and Instruction</td>
<td>3</td>
<td>ED</td>
<td>PR: EDG 6627. Identification and analysis of major problems and issues in curriculum and instruction. Critical examination of efforts to deal with these issues.</td>
</tr>
<tr>
<td>EDG 7910</td>
<td>Directed Research</td>
<td>1-19</td>
<td>ED</td>
<td>S/U only.</td>
</tr>
<tr>
<td>EDG 7931</td>
<td>Selected Topics</td>
<td>1-4</td>
<td>ED</td>
<td>PR: DPR. Selected topics in advanced Education.</td>
</tr>
<tr>
<td>EDG 7937</td>
<td>Graduate Seminar</td>
<td>1-4</td>
<td>ED</td>
<td>PR: CC. Seminar in advanced Education.</td>
</tr>
<tr>
<td>EDH 6051</td>
<td>Higher Education in America</td>
<td>3</td>
<td>ED</td>
<td>EDH For current and prospective faculty, administrators, policy analysts, and staff seeking to learn about American higher education. The topics addressed include the history, recent developments, and projections for the future of various aspects of higher education, including its missions, purposes, students, faculty and staff, administration, finance, organization, governance, and role in American society.</td>
</tr>
<tr>
<td>EDH 6061</td>
<td>Junior College in American Higher Education</td>
<td>4</td>
<td>ED</td>
<td>EDH Philosophical and cultural bases for definition of its role and contemporary issues, such as control, financing, and curricular patterns. Emphasis on the place and problems of the community junior college.</td>
</tr>
<tr>
<td>EDH 6406</td>
<td>Ethics and Higher Education</td>
<td>3</td>
<td>ED</td>
<td>EDH The purpose of this course is to assist students in developing a detailed ethical framework that will guide their actions and decision-making as they serve in leadership and teaching positions in higher education. Areas of emphasis include (a) learning selected philosophies of ethics; (b) exploring student, faculty, and classroom ethical issues; (c) discussing administrator/board ethical issues; (d) examining the college or university as an ethical organization.</td>
</tr>
<tr>
<td>EDH 6906</td>
<td>Independent Study</td>
<td>1-19</td>
<td>ED</td>
<td>EDH Independent study in which students must have a contract with an instructor. Rpt. S/U.</td>
</tr>
<tr>
<td>EDH 6938</td>
<td>Seminar in College Teaching</td>
<td>3</td>
<td>ED</td>
<td>EDH Implications of learning theory and student characteristics for teaching at the college level. Types of teaching procedures, innovation, evaluation, student freedom, and responsibility for learning.</td>
</tr>
<tr>
<td>EDH 6947</td>
<td>Intership in Higher Education</td>
<td>1-6</td>
<td>ED</td>
<td>EDH This course provides higher education program graduate students with an extensive, semester-long, field experience in a two- or four-year college, under the dual guidance of a campus-based supervisor and a USF higher education program faculty member. The internship</td>
</tr>
<tr>
<td>Course Code</td>
<td>Course Title</td>
<td>Credits</td>
<td>Offered by</td>
<td>Prerequisites</td>
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</tr>
<tr>
<td>EDH 7225</td>
<td>Curriculum Development In Higher Education</td>
<td>3</td>
<td>EDH</td>
<td>PR: GS or CI.</td>
</tr>
<tr>
<td>EDH 7405</td>
<td>Policy and Legal Dimensions in Higher Education</td>
<td>3</td>
<td>EDH</td>
<td></td>
</tr>
<tr>
<td>EDH 7505</td>
<td>Higher Education Finance</td>
<td>3</td>
<td>EDH</td>
<td>PR: GS or CI.</td>
</tr>
<tr>
<td>EDH 7633</td>
<td>Governing Colleges and Universities</td>
<td>3</td>
<td>EDH</td>
<td></td>
</tr>
<tr>
<td>EDH 7635</td>
<td>Organization And Administration Of Higher Education</td>
<td>3</td>
<td>EDH</td>
<td>PR: GS or CI.</td>
</tr>
<tr>
<td>EDH 7636</td>
<td>Organizational Theory and Practices in Higher Education</td>
<td>3</td>
<td>EDH</td>
<td></td>
</tr>
<tr>
<td>EDH 7910</td>
<td>Directed Research</td>
<td>1-19</td>
<td>EDH</td>
<td></td>
</tr>
<tr>
<td>EDH 7930</td>
<td>Higher Education Seminar</td>
<td>1</td>
<td>EDH</td>
<td></td>
</tr>
<tr>
<td>EDH 7935</td>
<td>Higher Education Capstone Seminar</td>
<td>3</td>
<td>EDH</td>
<td></td>
</tr>
<tr>
<td>EDH 7980</td>
<td>Dissertation</td>
<td>2-30</td>
<td>EDH</td>
<td>PR: Admitted to Candidacy.</td>
</tr>
</tbody>
</table>

Experience must relate to the student’s goals in the doctoral program. Students should be at or near the end of their graduate program.

Emphasis on curriculum perspectives, procedures, and practices in higher education; principles of curriculum and instruction in higher education; theory and practices in goal setting, curriculum planning, instructional improvement, and curriculum design.

This course is a doctoral level course with primary focus on the interface of policy and law as they address the nature, process and product of community college and higher education in the United States and Florida. Constitutional, statutory and contract law is also discussed, as are critical legal and policy issues in higher education, including governance, academic freedom, student rights, discrimination, tort liability, contracts and collective bargaining.

Emphasis on financial policies, planning, and budgeting; allocation; financial analysis and management; patterns of expenditure, sources of income. Relationships between educational objectives and resource allocations.

Students in this course will examine and compare existing models of state and local college and university governance structures. Demographic, social, legal, financial, and planning issues and forces that effect how colleges and universities are governed will also be explored. Policy analysis and research will be explored as it relates to governance in higher education.

Examines the concepts about higher education organizations and administration, the behaviors of those organizations and administrators, and the relationships between concept and practice.

Explores theories and models of organizations and their applicability to colleges and universities and the work done in the influence of internal and external actors. Also examines many of the administrative practices and processes common in colleges and universities today.

This course provides higher education program graduate students with an opportunity for directed research, under the supervision of a higher education program faculty member.

Topics of general and special concern in higher education, restricted to advanced graduate students.

The course is designed to encourage students’ integration and synthesis of theories, concepts and themes in previous coursework; to critique research in the field; and to provide some in-depth study of selected areas in higher education. Advanced Graduate Standing. Instructor approval required – majors only.
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
<th>Department</th>
<th>Prerequisites</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>EDM 6235</td>
<td>School Curriculum: Middle</td>
<td>3</td>
<td>ED</td>
<td>EDC</td>
<td>PR: EDG 4620, EDG 6627. Open to all education graduate students. Examines the organization, curriculum, and instruction of the middle school with special emphasis on the nature of the students served.</td>
</tr>
<tr>
<td>EDM 6622</td>
<td>Client Centered Middle Schools</td>
<td>3</td>
<td>ED</td>
<td>EDM</td>
<td>Majors Only. Combination lecture/discussion/independent study course that examines in depth the current research on needs/characteristics of the early adolescent and its implications for both organization of the middle grade school and its delivery of curriculum and instruction.</td>
</tr>
<tr>
<td>EDM 6623</td>
<td>Responsive Middle School Programs</td>
<td>3</td>
<td>ED</td>
<td>EDM</td>
<td>PR: EDM 6622. Combination lecture/discussion/individual study course that examines in depth the current research on both the interdisciplinary team/advisory concepts and how these organizational patterns can promote thinking skills and integration of subject matter throughout the curriculum.</td>
</tr>
<tr>
<td>EDM 6624</td>
<td>Effective Instruction for Middle Schools</td>
<td>3</td>
<td>ED</td>
<td>EDM</td>
<td>PR: EDM 6622 and EDM 6623. Combination lecture/discussion/individual study course that examines in depth the current research on both alternative instructional strategies and assessment practices that are successful with middle level students.</td>
</tr>
<tr>
<td>EDM 6935</td>
<td>Middle School Issues Seminar</td>
<td>1-3</td>
<td>ED</td>
<td>EDM</td>
<td>Combines discussion/individual study seminar modeling the advisory concept in a university setting and examining the current research on a variety of important trends/issues affecting middle level education.</td>
</tr>
<tr>
<td>EDS 6050</td>
<td>Principles and Practices of Educational Supervision</td>
<td>3</td>
<td>ED</td>
<td>EDB</td>
<td>PR: GS. Role definitions of supervision, analysis of role conflict, needs assessments, supervising the planning of instruction, and observing the delivery of instruction.</td>
</tr>
<tr>
<td>EDS 6131</td>
<td>Clinical Supervision</td>
<td>3</td>
<td>ED</td>
<td>EDB</td>
<td>PR: GS, EDS 6050. Trains administrators, supervisors, and peer teachers in observing and diagnosing teacher classroom performance, writing remedial plans, conducting post observation conferences, and evaluating performance.</td>
</tr>
<tr>
<td>EDS 6239</td>
<td>Problems In Supervision</td>
<td>3</td>
<td>ED</td>
<td>EDB</td>
<td>PR: GS, EDS 6050 or CI. Analysis of instructional problems in schools. Emphasis on supervisory tasks, case studies, and the application of problem solving techniques and strategies.</td>
</tr>
<tr>
<td>EDS 7130</td>
<td>Teacher Evaluation: Process and Instruments</td>
<td>3</td>
<td>ED</td>
<td>EDB</td>
<td>PR: EDA 6061, EDF 6432, CI. Examines procedures for establishing content validity, reliability, norms, and predictive validity of teacher evaluation systems. Examines the psychometric qualities of selected instruments.</td>
</tr>
<tr>
<td>EEC 6261</td>
<td>Advanced Programs In Early Childhood Education</td>
<td>3</td>
<td>ED</td>
<td>EDB</td>
<td>PR: EDF 6432, EEC 4203 or DPR. Innovative curriculum designs in Early Childhood Education, with emphasis given to related research.</td>
</tr>
<tr>
<td>EEC 6405</td>
<td>Home - School - Community Interaction In Early Childhood Education</td>
<td>3</td>
<td>ED</td>
<td>EDB</td>
<td>PR: EDF 6432, EEC 4203 or DPR. Roles of parents, teacher aides, and community agencies involved in the education of the young child.</td>
</tr>
<tr>
<td>EEC 6406</td>
<td>Social Growth In Childhood</td>
<td>3</td>
<td>ED</td>
<td>EDB</td>
<td>Intellectual development of the normal child with particular emphasis on the studies of Jean Piaget and how they relate to curriculum for children, ages 0-8. Child study through observation required.</td>
</tr>
<tr>
<td>EEC 6705</td>
<td>Intellectual Growth In Childhood</td>
<td>3</td>
<td>ED</td>
<td>EDB</td>
<td></td>
</tr>
<tr>
<td>Course Code</td>
<td>Course Title</td>
<td>Units</td>
<td>Division</td>
<td>Description</td>
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</tr>
<tr>
<td>EEC 6926</td>
<td>Workshop In Early Childhood Education</td>
<td>3</td>
<td>ED</td>
<td>Individual problems and innovations related to methods and materials of instruction in early childhood.</td>
<td></td>
</tr>
<tr>
<td>EEC 7910</td>
<td>Directed Research in Early Childhood Education</td>
<td>1-19</td>
<td>ED</td>
<td>PR: Advanced graduate standing. Independent student-faculty research course.</td>
<td></td>
</tr>
<tr>
<td>EEC 7980</td>
<td>Dissertation</td>
<td>2-30</td>
<td>ED</td>
<td>PR: Admission to Candidacy</td>
<td></td>
</tr>
<tr>
<td>EED 6211</td>
<td>Educational Strategies for Students With Behavior Disorders</td>
<td>3</td>
<td>EDS</td>
<td>Advanced methods and materials for planning, implementing, and evaluating educational interventions with students with behavior disorders. For certification.</td>
<td></td>
</tr>
<tr>
<td>EED 6215</td>
<td>Advanced Theories and Practices in Behavior Disorders</td>
<td>3</td>
<td>EDS</td>
<td>Introductory course in special education.</td>
<td></td>
</tr>
<tr>
<td>EED 6246</td>
<td>Educating the Autistic Student</td>
<td>3</td>
<td>EDS</td>
<td>PR: GS, introductory course in educating exceptional students; Psycho-educational assessment. Developing and managing appropriate and effective educational programs and techniques for students who have autism.</td>
<td></td>
</tr>
<tr>
<td>EED 6943</td>
<td>Supervised Practicum in Behavior Disorders</td>
<td>1-12</td>
<td>EDS</td>
<td>PR: CI. S/U. Supervised graduate practicum experiences with children who have behavior disorders. For students seeking certification only.</td>
<td></td>
</tr>
<tr>
<td>EEL 6151</td>
<td>Advanced Circuit Theory II</td>
<td>3</td>
<td>EGE</td>
<td>PR: EEL 6150. Network fundamentals; network characterization, frequency analysis; superposition integrals; signal-flow techniques, stability problems; real and imaginary relations.</td>
<td></td>
</tr>
<tr>
<td>EEL 6318</td>
<td>Characterization of Semiconductors</td>
<td>3</td>
<td>EGE</td>
<td>Electrical, optical, chemical, and physical methods used to characterize semiconductor materials and devices; includes surface and near surface spectroscopes. Available to non-majors.</td>
<td></td>
</tr>
<tr>
<td>EEL 6353</td>
<td>Semiconductor Device Theory I</td>
<td>3</td>
<td>EGE</td>
<td>Theory of operation and application of circuits and devices.</td>
<td></td>
</tr>
<tr>
<td>EEL 6354</td>
<td>Semiconductor Device Theory II</td>
<td>3</td>
<td>EGE</td>
<td>Theory of operation and application of circuits and devices.</td>
<td></td>
</tr>
</tbody>
</table>
EEL 6355 Compound Semiconductor Technology 3 EN EGE

Bulk crystal and epitaxial growth technologies of III-V and II-VI compound semiconductors. The properties, characterization, and device applications of these compounds will be emphasized.

EEL 6391 Noise in Electrical Devices 3 EN EGE PR: EEL 6387.

Characteristics, measurements and generation mechanisms of noise sources observed in electronic materials and devices. Materials and devices to be considered include thin and thick films, superconductors, semiconductors and semiconductor devices.

EEL 6434 Active Microwave Structures and Devices 3 EN EGE PR: EEL 5437

Theory and design of solid state low noise and high power amplifiers, solid state oscillators and high power tubes for waveguide, coax and integrated circuit applications.

EEL 6447C Optoelectronics 3 EN EGE

Basic principles and operations of lasers and analyses of power output and frequency pulling in laser oscillators.

EEL 6463 Advanced Antenna Theory 3 EN EGE PR: EEL 5462.

Electromagnetic radiating systems studied by analytical and numerical methods.

EEL 6481C Numerical Techniques In Electromagnetism 3 EN EGE PR: EEL 5462, EEL 6486CC.


EEL 6486C Electromagnetic Field Theory 3 EN EGE

Time harmonic electromagnetic fields emphasizing problems in transmission lines and electric power transmission.

EEL 6487C Advanced Electromagnetic Field Theory 3 EN EGE PR: EEL 6486C.

Time harmonic fields emphasizing problems with exact solutions in the rectangular, cylindrical and spherical coordinate systems. Solutions by methods, Green's functions and vector methods.

EEL 6502 Digital Signal Processing I 3 EN EGE


EEL 6506C Broadband Communication Networks 3 EN EGE PR: EEL 6534.

Satellite characteristics, link calculations, earth station, frequency management, large and small mobile earth terminals. Digital communication for satellites: modulation coding and multiple-access techniques. Examples including the INTELSAT series.

EEL 6509 Satellite Communication 3 EN EGE PR: EEL 6534.

Ultra high-speed channels; radio, microwave, and lightweight. High-order constellations. Multiplexing, demultiplexing, and framing. Adaptive equalization for inter-symbol interference and multi-path fading. Switching space and time for UHS streams.

EEL 6519 Ultra High Speed Communications 3 EN EGE PR: EEL 6535.
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
<th>Type</th>
<th>Prerequisites</th>
</tr>
</thead>
<tbody>
<tr>
<td>EEL 6534</td>
<td>Digital Communication Systems</td>
<td>3</td>
<td>EN</td>
<td>EGE</td>
</tr>
<tr>
<td>EEL 6545</td>
<td>Random Processes in Electrical Engineering</td>
<td>3</td>
<td>EN</td>
<td>EGE</td>
</tr>
<tr>
<td>EEL 6563</td>
<td>Optical Fiber Communication</td>
<td>3</td>
<td>EN</td>
<td>EGE</td>
</tr>
<tr>
<td>EEL 6586</td>
<td>Speech Signal Processing</td>
<td>3</td>
<td>EN</td>
<td>EGE</td>
</tr>
<tr>
<td>EEL 6592</td>
<td>Digital Video and Multimedia</td>
<td>3</td>
<td>EN</td>
<td>EGE</td>
</tr>
<tr>
<td>EEL 6593</td>
<td>Mobile and Personal Communication</td>
<td>3</td>
<td>EN</td>
<td>EGE</td>
</tr>
<tr>
<td>EEL 6597</td>
<td>Wireless Network Architecture and Protocols</td>
<td>3</td>
<td>EN</td>
<td>EGE</td>
</tr>
<tr>
<td>EEL 6613</td>
<td>Modern Control Theory</td>
<td>3</td>
<td>EN</td>
<td>EGE</td>
</tr>
<tr>
<td>EEL 6614</td>
<td>Systems and Control Theory I</td>
<td>3</td>
<td>EN</td>
<td>EGE</td>
</tr>
<tr>
<td>EEL 6615</td>
<td>Systems and Control Theory II</td>
<td>3</td>
<td>EN</td>
<td>EGE</td>
</tr>
<tr>
<td>EEL 6620</td>
<td>Nonlinear Control Systems</td>
<td>3</td>
<td>EN</td>
<td>EGE</td>
</tr>
</tbody>
</table>


A study of fiber-optic technology as applied to communications systems.


Principles of video transmission and television. Digital video standards. Multimedia principles (including video, image, and sound) and their applications. Enhanced definition and and high definition television principles, standards, and technology.

Characteristics of wireless mobile channels indoor and outdoor; multipath and shadow fading, frequency reuse; micro and pico cells; base-station and portable units. Cell coverage, blocking, and co-channel interference. TDMA, FDMA, CDMA and hybrid approaches to multiple access. Protocols, hand-over. Voice, data, and multi-media over wireless indoor channels.


A study of modern control techniques including optimum and adaptive control.

Analysis of multi-variable linear systems continuous and discrete time, state-space methodology and transfer functions description. Analysis and design of feedback control systems. Effects of plant and measurement noise. Optimal control.

Continuation of EEL 6614.

Principles of state-variables, phase-plane and describing functions.
<table>
<thead>
<tr>
<th>Course No.</th>
<th>Course Title</th>
<th>Credits</th>
<th>Department</th>
<th>Prerequisites</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>EEL 6640</td>
<td>Random Processes in Control Systems</td>
<td>3</td>
<td>EN</td>
<td>EGE</td>
<td>Analysis and design of control systems subject to random inputs and disturbances.</td>
</tr>
<tr>
<td>EEL 6658</td>
<td>RF &amp; Microwave Measurements</td>
<td>2</td>
<td>EN</td>
<td>EGE</td>
<td>Concentrates on the theory and applications of modern radio frequency and microwave measurements. Topics include network analyzer, spectrum analyzer, noise, power and non-linear distortion measurements.</td>
</tr>
<tr>
<td>EEL 6706</td>
<td>Testing And Fault Tolerance In Digital Systems</td>
<td>3</td>
<td>EN</td>
<td>ESB PR: COP 2400, CDA 4201 or CI majors only.</td>
<td>Test generation for combinational and sequential digital circuits, fault analysis and diagnosis. Methods for reliability improvement through fault tolerant and testable circuit design. Introduction to software reliability.</td>
</tr>
<tr>
<td>EEL 6707</td>
<td>Advanced Digital Systems</td>
<td>3</td>
<td>EN</td>
<td>EGE</td>
<td>Principles of combinational circuit analysis, duality, hazards, IC gates, circuit design. Analysis of fundamental mode sequential circuits, sequential circuit synthesis, design for testability, using MSI and standard cells. Register transfer design and hardware description languages.</td>
</tr>
<tr>
<td>EEL 6753</td>
<td>Digital Signal Processing III</td>
<td>3</td>
<td>EN</td>
<td>EGE PR: EEL 6502 or EEL 6752.</td>
<td>Advanced topics in digital signal processing, e.g. a Adaptive arrays, beam forming, and applications to radar and sonar, b Multi-rate filtering, multi-resolution analysis, sub-band analysis, wavelet transforms, and applications to images and other large-scale measurements, c Noise cancellation, and d inverse problems, such as CT reconstruction.</td>
</tr>
<tr>
<td>EEL 6764</td>
<td>Principles Of Computer Architecture</td>
<td>3</td>
<td>EN</td>
<td>ESB PR: CDA 4100 or CI.</td>
<td>Arithmetic algorithms, CPU speedup techniques, memory hierarchies, virtual memory, input-output. Study of the number systems and the algorithms used for digital arithmetic computation with emphasis on their implementation, speed and reliability considerations.</td>
</tr>
<tr>
<td>EEL 6765</td>
<td>Microsystems and MEMS Technology</td>
<td>3</td>
<td>EN</td>
<td>EGE</td>
<td>This course provides an overview of the MEMS Technology, focusing on devices and systems that can be developed using standard processing approaches.</td>
</tr>
<tr>
<td>EEL 6766</td>
<td>Advanced Computer Architecture</td>
<td>3</td>
<td>EN</td>
<td>ESB PR: EEL 6764 or CI.</td>
<td>Control unit and microprogramming, reduced instruction set computers RISC, object oriented systems, multiprocessor systems, supercomputers. The macrostructure of computers is considered in this course, ranging from the orthodox von Neumann design to multiprocessors, stack processors, pipeline systems, and associative computers.</td>
</tr>
<tr>
<td>EEL 6820</td>
<td>Image Processing</td>
<td>3</td>
<td>EN</td>
<td>EGE</td>
<td>Two-dimensional signals including random, convolution and system functions. Fourier transform and FFT in two dimensions. Digitization of two-dimensional signals, quantization and aliasing errors. Filtering, restoration, and low bit-rate coding of images. Application to video-conferencing.</td>
</tr>
<tr>
<td>EEL 6846</td>
<td>Coding Theory</td>
<td>3</td>
<td>EN</td>
<td>EGE PR: EGN 5423.</td>
<td>Error-correcting codes, algebraic block codes, linear codes and feedback shift registers; BCH codes; convolutional codes; burst error correcting codes; arithmetic codes; decoding methods.</td>
</tr>
<tr>
<td>EEL 6908</td>
<td>Independent Study</td>
<td>1-19</td>
<td>EN</td>
<td>EGE S/U</td>
<td>Independent study in which students must have a contract with an instructor.</td>
</tr>
<tr>
<td>Code</td>
<td>Course Title</td>
<td>Units</td>
<td>Type</td>
<td>Prerequisite(s)</td>
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<tr>
<td>EEL</td>
<td>Advanced Engineering Seminar</td>
<td>1-3</td>
<td>EN</td>
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<tr>
<td>EEL</td>
<td>Selected Electrical Topics</td>
<td>1-3</td>
<td>EN</td>
<td></td>
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<tr>
<td>EEL</td>
<td>Special Electrical Problems</td>
<td>1-3</td>
<td>EN</td>
<td></td>
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<tr>
<td>EEL</td>
<td>Thesis: Master's</td>
<td>2-19</td>
<td>EN</td>
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<tr>
<td>EEL</td>
<td>ST in Communication</td>
<td>3</td>
<td>EN</td>
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<tr>
<td>EEL</td>
<td>Dissertation: Doctorate</td>
<td>2-19</td>
<td>EN</td>
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<tr>
<td>EEX</td>
<td>Trends and Issues in Special Education</td>
<td>3</td>
<td>ED</td>
<td></td>
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<tr>
<td>EEX</td>
<td>Advanced Psychoeducational Assessment of Exceptional Students</td>
<td>3</td>
<td>ED</td>
<td></td>
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<tr>
<td>EEX</td>
<td>Developing Individualized Educational Programs for Students with Disabilities</td>
<td>6</td>
<td>ED</td>
<td></td>
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<tr>
<td>EEX</td>
<td>Observational Methods and Functional Assessment</td>
<td>3</td>
<td>ED</td>
<td></td>
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<tr>
<td>EEX</td>
<td>Transitional Programming for the Adolescent and Young Adult Exceptional Student</td>
<td>3</td>
<td>ED</td>
<td></td>
<td></td>
</tr>
<tr>
<td>EEX</td>
<td>Instructional Approaches for Exceptional Populations</td>
<td>3</td>
<td>ED</td>
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</tr>
</tbody>
</table>

Advanced topics in communications such as synchronization, spread-spectrum communications, fading channels, large constellation signaling schemes, mobile radio, statistical multiplexing, performance measurement, etc.

Survey of all exceptionalities including current trends and issues related to the field of special education.

Theory and methodology associated with norm-referenced, criterion-referenced, curriculum-based, ecological, and psychoneurological assessment procedures for exceptional students.

This 6-hour course reinforces and extends competencies in assessment, behavior management, legal and ethical foundations of special education, instructional planning, working with families, collaboration, and characteristics of disabilities. Content emphasizes knowledge and skills needed by teachers who are working with students who have mild disabilities and those from diverse cultural, socioeconomic and ethnic areas.

Provide students with instruction in functional assessment procedures and direct observation methods to be used consistent with the principles of applied behavior analysis in mental health and education settings.

Procedures for implementing educational programs with exceptional adolescents. Includes educational programming, alternative programs, community resource coordination, career/occupational education, and advocacy.

In-depth study of instructional strategies that are effective when teaching students with emotional disturbance, mental retardation, and learning disabilities. Content includes techniques for curriculum adaptation, IEP development; direct, data-based and metacognitive strategy instruction; and micro-computer applications.
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
<th>Degree Code</th>
<th>Delivery</th>
<th>Prerequisites</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>EEX 6511</td>
<td>Administration of Exceptional Student Programs</td>
<td>3</td>
<td>ED</td>
<td>EDS</td>
<td>Fall Semester.</td>
<td>Procedures that local, state, and national administrators may use to implement services for exceptional students.</td>
</tr>
<tr>
<td>EEX 6526</td>
<td>Grantsmanship</td>
<td>3</td>
<td>ED</td>
<td>EDS</td>
<td>PR: Advanced GS.</td>
<td>Fundamental skills for obtaining external funding of training, service, and research projects in education and the social sciences. Includes locating and communicating with sponsors, developing proposals, and preparing budgets. Emphasis is on grantsmanship in an academic environment.</td>
</tr>
<tr>
<td>EEX 6612</td>
<td>Management and Motivation of Exceptional and At-Risk Students</td>
<td>3</td>
<td>ED</td>
<td>EDS</td>
<td>PR: Introductory course in special education, GS.</td>
<td>Available to non-majors. Focuses on approaches to classroom management and motivational strategies when working with exceptional students. Content includes applied behavior analysis techniques, psychoeducational approaches, and social skills training.</td>
</tr>
<tr>
<td>EEX 6615</td>
<td>Creating Positive Learning Environments for Students with Disabilities</td>
<td>6</td>
<td>ED</td>
<td>EDS</td>
<td>PR: Admission to the MAT.</td>
<td>This course presents an overview of assessment, behavior management, and instructional planning for students with disabilities. It also incorporates content about the historical and legal foundations of special education and theories and research that focus on defining, describing and intervening with students who have learning disabilities, behavior disorders, mild-moderate mental retardation, mild to moderate developmental disabilities, and physical disabilities.</td>
</tr>
<tr>
<td>EEX 6706</td>
<td>Education of the Preschool Handicapped Child</td>
<td>3</td>
<td>ED</td>
<td>EDS</td>
<td>Fall Semester.</td>
<td>Education of children ages birth through five with special needs. Basic concepts, curricular intervention strategies, and organizational structures are covered.</td>
</tr>
<tr>
<td>EEX 6732</td>
<td>Consultation and Collaboration in Special Education</td>
<td>3</td>
<td>ED</td>
<td>EDS</td>
<td>PR: Introductory course in special education, GS.</td>
<td>Theories of consultation and collaboration. Overview of service delivery models in special education.</td>
</tr>
<tr>
<td>EEX 6906</td>
<td>Independent Study: Special Education</td>
<td>1-6</td>
<td>ED</td>
<td>EDS</td>
<td>S/U.</td>
<td>Independent study in which students must have a contract with an instructor:</td>
</tr>
<tr>
<td>EEX 6936</td>
<td>Seminar in Integrating Exceptional Students in Regular Educational Environments</td>
<td>3</td>
<td>ED</td>
<td>EDS</td>
<td></td>
<td>Designed for non-special education graduate students. Surveys the characteristics of exceptional student populations, identification procedures, and systems for providing appropriate services for “mainstreamed” student in academic and non-academic settings.</td>
</tr>
<tr>
<td>EEX 6939</td>
<td>Advanced Seminar: Paradigms, Practices, and Policies in Special Education</td>
<td>3</td>
<td>ED</td>
<td>EDS</td>
<td>PR: DPR. Students should be in the last semester of coursework for master's degree.</td>
<td>An advanced graduate seminar stressing cross-categorical relationships. Topics include research that deals with paradigms for providing service, service models, and legal mandates.</td>
</tr>
<tr>
<td>EEX 6943</td>
<td>Practicum in Exceptional Student Education</td>
<td>1-4</td>
<td>ED</td>
<td>EDS</td>
<td>PR: Admission to Master's Degree Program in Special Education and DPR. S/U.</td>
<td>Supervised field work in exceptional student education with children (including preschool handicapped) who have learning disabilities, mental handicaps, emotional and behavioral disabilities, physical disabilities, or multiple disabilities.</td>
</tr>
<tr>
<td>EEX 6971</td>
<td>Thesis: Masters/Educational Specialist</td>
<td>2-19</td>
<td>ED</td>
<td>EDS</td>
<td>S/U.</td>
<td>This course will be concerned with the identification of the psycho-social needs and characteristics of exceptional children; opportunity of analysis of the educational implications of these needs and characteristics.</td>
</tr>
<tr>
<td>EEX 7203</td>
<td>Educational Implications of Psychosocial Aspects of Exceptional Children</td>
<td>1-5</td>
<td>ED</td>
<td>DPR.</td>
<td></td>
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</tr>
<tr>
<td>Course Code</td>
<td>Course Title</td>
<td>Units</td>
<td>Type</td>
<td>Designation</td>
<td>Prerequisites</td>
<td>Description</td>
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<tr>
<td>EEX 7301</td>
<td>Selected Topics in Special Education</td>
<td>1-8</td>
<td>ED</td>
<td>EDS</td>
<td>PR: EEX 7341 or DPR.</td>
<td>Identification and study of ethical and research issues in special education. Opportunity will be provided for the student to gather and process data, as appropriate, culminating in a written report and/or oral presentation to fellow student researchers.</td>
</tr>
<tr>
<td>EEX 7341</td>
<td>Research Studies and Their Implications in the Education of Exceptional Children</td>
<td>3</td>
<td>ED</td>
<td>EDS</td>
<td>PR: EDF 6431, EDF 6481, or equiv., DPR.</td>
<td>This course will involve a study of current research and research methods used in exceptional child education. The transition from theory to practice will be made through the examination and discussion of implications in the field of special education that can be drawn from the research.</td>
</tr>
<tr>
<td>EEX 7741</td>
<td>Philosophy and Theory in the Preparation of Special Education Specialists</td>
<td>3</td>
<td>ED</td>
<td>EDS</td>
<td>PR: Admission in the Program for Ed.S. or Ph.D. in Education. DPR.</td>
<td>In-depth exploration of the philosophy and theory in special education. A theoretical basis for the preparation of specialists in the field of exceptional child education.</td>
</tr>
<tr>
<td>EEX 7743</td>
<td>Philosophies of Inquiry</td>
<td>3</td>
<td>ED</td>
<td>EDS</td>
<td>PR: EDF 6481 or Equivalent, or permission of instructor</td>
<td>The purpose of this course is to introduce doctoral students to different approaches to educational research and to alternative frames for criticism, including postpositivism, constructivism, poststructuralism, pragmatism, critical theory, narrative, race and gender, ethics, and aesthetics.</td>
</tr>
<tr>
<td>EEX 7744</td>
<td>Curriculum and Instructional Issues in Urban Special Education</td>
<td>3</td>
<td>ED</td>
<td>EDS</td>
<td></td>
<td></td>
</tr>
<tr>
<td>EEX 7745</td>
<td>Historical, Ethical, and Disciplinary Foundations of Special Education</td>
<td>3</td>
<td>ED</td>
<td>EDS</td>
<td></td>
<td>Historical, Ethical, and Disciplinary Foundations of Special Education provides doctoral students a critical understanding of the social, political, ethical, and legal contexts that shaped the research, policies, and practices in the field of Special Education during the twentieth century.</td>
</tr>
<tr>
<td>EEX 7815</td>
<td>Research Seminar</td>
<td>2-3</td>
<td>ED</td>
<td>EDS</td>
<td>PR: Admission to Doctoral Program</td>
<td>This seminar, taken each semester of the first and second years of the doctoral program, will contribute to the development of the skills and values that lead to the creation of new knowledge and its application to the field of special education in order to improve outcomes for students who have disabilities and their families. Issues in urban schools will be emphasized.</td>
</tr>
<tr>
<td>EEX 7841</td>
<td>Fieldwork With Exceptional Students</td>
<td>1-5</td>
<td>ED</td>
<td>EDS</td>
<td>DPR.</td>
<td>Practical field experience in curriculum development, classroom teaching, supervision, and/or administrative areas in special education.</td>
</tr>
<tr>
<td>EEX 7910</td>
<td>Directed Research</td>
<td>1-19</td>
<td>ED</td>
<td>EDS</td>
<td></td>
<td></td>
</tr>
<tr>
<td>EEX 7911</td>
<td>Specialized Study In: Mental Retardation, Behavior Disorders, Specific Learning Disabilities, and Gifted</td>
<td>1-8</td>
<td>ED</td>
<td>EDS</td>
<td>DPR.</td>
<td>The specialized study enables advanced exploration of knowledge in an area of interest to the student in special education.</td>
</tr>
</tbody>
</table>
### Education

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
<th>Days</th>
<th>Time</th>
<th>Department</th>
<th>Prerequisites</th>
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<tbody>
<tr>
<td>EEX 7980</td>
<td>Dissertation</td>
<td>2-30</td>
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<td>EDS</td>
<td>PR: Admission to Candidacy.</td>
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<tr>
<td>EGI 6232</td>
<td>Advanced Educational Strategies for the Gifted</td>
<td>3</td>
<td>ED</td>
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<td>PR: EGI 5051.</td>
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</tr>
<tr>
<td>EGI 6416</td>
<td>Consultation, Counseling, and Guidance Skills for Gifted Students</td>
<td>3</td>
<td>ED</td>
<td>EDS</td>
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</tr>
<tr>
<td>EGI 6936</td>
<td>Seminar in Education of the Gifted: Special Population</td>
<td>3</td>
<td>ED</td>
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<td>EGI 6943</td>
<td>Supervised Practicum in Gifted Education</td>
<td>1-12</td>
<td>ED</td>
<td>EDS</td>
<td>PR: CC. S/U.</td>
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### Other departments

<table>
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<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
<th>Days</th>
<th>Time</th>
<th>Department</th>
<th>Prerequisites</th>
</tr>
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<tbody>
<tr>
<td>EGM 6656</td>
<td>Theory of Elasticity</td>
<td>3</td>
<td>EN</td>
<td>EGX</td>
<td>PR: CES 6116</td>
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<tr>
<td>EGN 6426</td>
<td>Engineering Analysis VI</td>
<td>3</td>
<td>EN</td>
<td>EGB</td>
<td>PR: EGN 4420.</td>
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<tr>
<td>EIN 6106</td>
<td>Technology and Law</td>
<td>3</td>
<td>EN</td>
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<tr>
<td>EIN 6107</td>
<td>Professional Behavior and the Engineer</td>
<td>3</td>
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<tr>
<td>EIN 6108</td>
<td>EM-Human Relations</td>
<td>3</td>
<td>EN</td>
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<tr>
<td>EIN 6119</td>
<td>Decision Support Systems in Engineering Management</td>
<td>3</td>
<td>EN</td>
<td>EGS</td>
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<tr>
<td>EIN 6121</td>
<td>Technology and Markets</td>
<td>3</td>
<td>EN</td>
<td>EGS</td>
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</table>

Curriculum adjustments, methods and techniques, as well as classroom organizations necessary for teaching students who are gifted will be the focus of this course. Emphasis will also be on curriculum in gifted programs within the context of school reform and restructuring.

Primary emphasis of this course will be to provide an awareness, knowledge, and understanding of the unique guidance and counseling needs of students who are gifted and talented or from special populations.

This seminar will provide a critical survey of the research, issues, policy, ethics, and practices related culturally diverse, economically disadvantaged, limited, English proficient, twice exceptional, highly gifted, or very young.

Planned experiences working with students who are gifted, program development and administration, or an individualized inquiry of a specific issue related to gifted education.

Classical and contemporary elasticity theory with applications to engineering problems.

Application of computational and mathematical techniques and principles to advanced engineering problems.

Selected topics related to the relationships between and among technology, law and social policy, including governmental regulation, products liability, professional liability, contract negotiation and formation, and developments and trends affecting engineering professionals.

A study of professional ethics and morals as faced by technical managers in the development, production, and marketing of industrial products and services. Emphasis on case studies, class discussions, and guest lecturers regarding ethical issues in managerial decision making.

Human relations, understanding oneself, understanding other people, influencing and motivation performance, improving moral and discipline, and self appraisal and analysis for the technical manager.

Conceptual foundations of decision support systems with focus on the needs of engineering managers and effective decision making in technological and scientific organizations.

Marketing strategy and its relationship to the development of technology from the viewpoint of interaction between the technical enterprise and its industrial and government customers.
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
<th>Prerequisites</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>EIN 6204</td>
<td>Engineering Information Processing</td>
<td>3</td>
<td>EN EGS</td>
<td>Majors only. A study of human information processing theories and measurement techniques as applied to engineering problems emphasizing perceptual, cognitive, and learning aspects of interpersonal and human-computer communication.</td>
</tr>
<tr>
<td>EIN 6215</td>
<td>Engineering System Safety</td>
<td>3</td>
<td>EN EGS</td>
<td>PR: Statistics. The theory and practical implications of the concept of systems safety as these relate to the life cycle of a product or system. Analysis of the fundamental concepts, design implications, and specifications of safety in human machine environments.</td>
</tr>
<tr>
<td>EIN 6216</td>
<td>Occupational Safety Engineering</td>
<td>3</td>
<td>EN EGS</td>
<td>PR: GS in Public Health or Engineering or CI. Introduction to the principles of designing, maintaining, and managing a workplace free from hazards. Covers mechanical hazards, fall and lifting hazards, climatic and environmental hazards, fire and explosive hazards, and pressure hazards. Considers design issues, warnings, and personal protective equipment. Term project required.</td>
</tr>
<tr>
<td>EIN 6258</td>
<td>Human/Computer Interaction</td>
<td>3</td>
<td>EN EGS</td>
<td>PR: EIN 5245, majors only. Application of human factors in the design and operation of man/machine systems. Analysis of the use of microprocessors and computer-controlled devices in man/machine systems.</td>
</tr>
<tr>
<td>EIN 6265</td>
<td>Industrial Mental Health</td>
<td>3</td>
<td>EN EGS</td>
<td>Majors only. Theories and concepts of mental hygiene and positive mental health as applied to organizational settings. Review of research studies related to industrial mental health; stress management; strategies for improving mental health and employee performance.</td>
</tr>
<tr>
<td>EIN 6319</td>
<td>Work Design And Productivity Engineering</td>
<td>3</td>
<td>EN EGS</td>
<td>Majors only. Foundations of motivated work performance, job satisfaction and organizational productivity. Analysis of job content and job context, comparison of different concepts for improving organizational effectiveness; suggestions for productivity improvements through effective work redesign.</td>
</tr>
<tr>
<td>EIN 6323</td>
<td>Engineering Management Policy And Strategy</td>
<td>3</td>
<td>EN EGS</td>
<td>Majors only. Strategic planning and policy formulation in technical and scientific organizations. General managers in the middle. Translation of strategic plans into action plans and implementation of the strategic change process. This is a capstone course in the EM program to be taken during the last semester of the student's program.</td>
</tr>
<tr>
<td>EIN 6324</td>
<td>Technical Entrepreneurship</td>
<td>3</td>
<td>EN EGS</td>
<td>A comprehensive study of developing and starting an engineering venture. Student teams work out a business plan for a company to develop, manufacture, and distribute a technical product or service.</td>
</tr>
<tr>
<td>EIN 6336</td>
<td>Production Control Systems</td>
<td>3</td>
<td>EN EGS</td>
<td>PR: CC, majors only. Forecasting models, development of production plans, loading and scheduling models and basic inventory models. Use of MRP. Design and evaluation of production control systems.</td>
</tr>
<tr>
<td>EIN 6386</td>
<td>Management of Technological Change</td>
<td>3</td>
<td>EN EGS</td>
<td>Majors only. A study of problems encountered by managers in the planning, organizing, directing, and controlling of resources in technology-based organizations.</td>
</tr>
<tr>
<td>EIN 6605</td>
<td>Robotics And Assembly Automation</td>
<td>3</td>
<td>EN EGS</td>
<td>Majors only. The use of robots in manufacturing assembly; coordinated use of robots, machine tools, feeders, holding devices, and material handling systems.</td>
</tr>
<tr>
<td>EIN 6934</td>
<td>Special Industrial Topics I</td>
<td>1-3</td>
<td>EN EGS</td>
<td>PR: CC, majors only.</td>
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<tr>
<td>Course Code</td>
<td>Course Title</td>
<td>Units</td>
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<tr>
<td>EIN 6935</td>
<td>Special Industrial Topics II</td>
<td>1-3</td>
<td>EN</td>
<td>EGS</td>
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<tr>
<td>EIN 6936</td>
<td>Special Industrial Topics III</td>
<td>1-3</td>
<td>EN</td>
<td>EGS</td>
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<tr>
<td>EIN 6971</td>
<td>Thesis: Master's</td>
<td>2-19</td>
<td>EN</td>
<td>EGS</td>
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<tr>
<td>ELD 6015</td>
<td>Advanced Theories and Practices in Specific Learning Disabilities</td>
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<tr>
<td>ELD 6235</td>
<td>Educational Strategies for Student With Specific Learning Disabilities</td>
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<td>ELD 6943</td>
<td>Practicum With Learning Disabilities</td>
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<tr>
<td>ELR 7910</td>
<td>Directed Research</td>
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<td>EME 6425</td>
<td>Microcomputers For School Management</td>
<td>3</td>
<td>ED</td>
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<td>EME 6613</td>
<td>Development of Technology-Based Instruction</td>
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<td>ED</td>
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<tr>
<td>EME 6906</td>
<td>Independent Study in Instructional Technology</td>
<td>1-6</td>
<td>ED</td>
<td>EDK</td>
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<tr>
<td>EME 6930</td>
<td>Programming Languages for Education</td>
<td>3</td>
<td>ED</td>
<td>EDK</td>
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<tr>
<td>EME 6936</td>
<td>Applications of Computers as Educational Tools</td>
<td>3</td>
<td>ED</td>
<td>EDK</td>
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<td>Course Code</td>
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<td>EME 7458</td>
<td>Research in Distance Learning</td>
<td>3</td>
<td>ED</td>
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<tr>
<td>EME 7631</td>
<td>Research in Technology Project Management</td>
<td>3</td>
<td>ED</td>
<td>EK</td>
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<td>EME 7910</td>
<td>Directed Research in Instructional Technology</td>
<td>1-9</td>
<td>ED</td>
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<tr>
<td>EME 7938</td>
<td>Computer-Augmented Instructional Paradigms in Education</td>
<td>3</td>
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<td>EK</td>
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<tr>
<td>EME 7939</td>
<td>Research in Technology-Based Education</td>
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<td>EME 7980</td>
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<tr>
<td>EML 6105</td>
<td>Advanced Thermodynamics and Statistical Mechanics</td>
<td>3</td>
<td>EN</td>
<td>EGR</td>
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<tr>
<td>EML 6145</td>
<td>Numerical Methods in Heat Transfer</td>
<td>3</td>
<td>EN</td>
<td>EGR</td>
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<tr>
<td>EML 6154</td>
<td>Advanced Conduction Analysis</td>
<td>3</td>
<td>EN</td>
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<tr>
<td>EML 6223</td>
<td>Synthesis of Vibrating Systems</td>
<td>3</td>
<td>EN</td>
<td>EGR</td>
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<tr>
<td>EML 6232</td>
<td>Composite Laminated Materials</td>
<td>3</td>
<td>EN</td>
<td>EGR</td>
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<tr>
<td>EML 6273</td>
<td>Advanced Dynamics of Machinery</td>
<td>3</td>
<td>EN</td>
<td>EGR</td>
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- 362 -
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
<th>Department</th>
<th>Prerequisites</th>
<th>Description</th>
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<tr>
<td>EML 6375</td>
<td>Dir Dig Ctrl I</td>
<td>3</td>
<td>EN EGR</td>
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<tr>
<td>EML 6606</td>
<td>HVAC Systems Design</td>
<td>3</td>
<td>EN EGR</td>
<td>PR: EML 4601 or CI majors only</td>
<td>Criteria for selection of systems types; performance, characteristics of single zone, multizone, double duct and variable volume systems; energy conservation in HVAC design; HVAC controls; computer models of HVAC systems; solar energy used in HVAC.</td>
</tr>
<tr>
<td>EML 6653</td>
<td>Applied Elasticity</td>
<td>3</td>
<td>EN EGR</td>
<td>PR: EML 3500</td>
<td>Students will apply the fundamentals of elasticity to engineering problems. Practical problems will be solved and advantages of using particular methods will be illustrated.</td>
</tr>
<tr>
<td>EML 6713</td>
<td>Advanced Fluid Mechanics</td>
<td>3</td>
<td>EN EGR</td>
<td>PR: CI majors only</td>
<td>Introduction to computational problem solutions in fluid mechanics and heat and mass transfer as applied to mechanical engineering. The emphasis is on the formulation and solution of computational engineering problems.</td>
</tr>
<tr>
<td>EML 6801</td>
<td>Robotic Systems</td>
<td>3</td>
<td>EN EGR</td>
<td>PR: CI majors only</td>
<td>Overview of existing industrial and specialized robot types and operation; vision systems; tactile sensors; ranging and proximity techniques; actuation/transmission methods; power sources; autonomous vehicle mobility and navigation methods; artificial intelligence.</td>
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<tr>
<td>EML 6808</td>
<td>Mechanics and Control of Robotic Manipulators</td>
<td>3</td>
<td>EN EGR</td>
<td></td>
<td>The purpose of this course is to understand the mechanics and control of robot manipulators. Topics include: Spatial descriptions and transformations; manipulator kinematics; manipulator dynamics; path planning and trajectory generation; position and force control implementation.</td>
</tr>
<tr>
<td>EML 6907</td>
<td>Independent Study</td>
<td>1-6</td>
<td>EN EGR</td>
<td>PR: GR majors only S/U.</td>
<td>Independent study in which students must have a contract with an instructor.</td>
</tr>
<tr>
<td>EML 6930</td>
<td>Special Problems I</td>
<td>1-3</td>
<td>EN EGR</td>
<td>PR: CC majors only</td>
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<tr>
<td>EML 6931</td>
<td>Special Problems II</td>
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<td>EN EGR</td>
<td>PR: CC majors only</td>
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<tr>
<td>EML 6971</td>
<td>Thesis: Master's</td>
<td>2-6</td>
<td>EN EGR</td>
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<tr>
<td>EML 7915</td>
<td>Directed Research</td>
<td>1-6</td>
<td>EN EGR</td>
<td>PR: CC and GR Ph.D. level majors only S/U.</td>
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<tr>
<td>EML 7980</td>
<td>Dissertation: Doctoral</td>
<td>2-12</td>
<td>EN EGR</td>
<td>PR: Admission to Candidacy</td>
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<tr>
<td>EMR 6052</td>
<td>Advanced Theories and Practices in Mental Retardation</td>
<td>3</td>
<td>ED EDS</td>
<td>PR: GS; introductory course in exceptional student education.</td>
<td>In-depth study of the complex social and biological aspects of mental retardation with particular reference to effects on education.</td>
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<tr>
<td>EML 6931</td>
<td>Special Problems II</td>
<td>1-3</td>
<td>EN EGR</td>
<td>PR: CC majors only</td>
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<tr>
<td>Course Code</td>
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<td>Department</td>
<td>Prerequisites</td>
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<tr>
<td>EMR 6303</td>
<td>Educational Strategies for the Mentally Retarded</td>
<td>3</td>
<td>ED</td>
<td>PR: CC. For students seeking certification only, S/U.</td>
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<tr>
<td>EMR 6943</td>
<td>Graduate Supervised Practicum in Mental Retardation</td>
<td>1-12</td>
<td>ED</td>
<td>PR: CC. For students seeking certification only, S/U.</td>
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<td>ENC 6319</td>
<td>Scholarly Writing for Publication in English Studies</td>
<td>3</td>
<td>AS</td>
<td>ENG</td>
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<tr>
<td>ENC 6336</td>
<td>Studies in the History of Rhetoric</td>
<td>3</td>
<td>AS</td>
<td>ENG</td>
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<tr>
<td>ENC 6421</td>
<td>Studies in Rhetoric and Technology</td>
<td>3</td>
<td>AS</td>
<td>ENG</td>
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<tr>
<td>ENC 6700</td>
<td>Studies in Composition Theory</td>
<td>3</td>
<td>AS</td>
<td>ENG</td>
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<tr>
<td>ENC 6720</td>
<td>Studies in Composition Research</td>
<td>3</td>
<td>AS</td>
<td>ENG</td>
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<tr>
<td>ENC 6740</td>
<td>Theory and Development of Writing Programs</td>
<td>3</td>
<td>AS</td>
<td>ENG</td>
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<tr>
<td>ENG 6009</td>
<td>Bibliography for English Studies</td>
<td>3</td>
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<td>ENG</td>
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<tr>
<td>ENG 6018</td>
<td>Studies in Criticism and Theory I</td>
<td>3</td>
<td>AS</td>
<td>ENG</td>
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<tr>
<td>ENG 6019</td>
<td>Studies in Criticism and Theory II</td>
<td>3</td>
<td>AS</td>
<td>ENG</td>
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<td>ENG 6916</td>
<td>Directed Research</td>
<td>1-19</td>
<td>AS</td>
<td>PR: GR. M.A. Level, CC. S/U.</td>
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<tr>
<td>ENG 6939</td>
<td>Graduate Seminar in English</td>
<td>3</td>
<td>AS</td>
<td>PR: Consent of graduate advisor.</td>
<td></td>
</tr>
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</table>

EMR 6303: In-depth study of the specific curriculum and methodological problems in teaching students with mental retardation. For certification.

EMR 6943: Supervised graduate practicum encompassing teaching and supervising experiences in public school classes for students with mental retardation.

ENC 6319: Methods of writing and publishing scholarly articles, monographs, and textbooks in rhetoric and composition, literary scholarship, and criticism. Required for Literature majors.

ENC 6336: Examines the evolving relationship between rhetoric and composition from antiquity to the present.

ENC 6421: Examines the intersection of Rhetoric and technology, with emphasis on contemporary critical issues in composition studies.

ENC 6700: Major theories and models of composing. Selected theorists include Rohman, Emig, Sommers, Flowers, and Hayes.

ENC 6720: Examines and evaluates a broad range of important research studies conducted in composition and a variety of research techniques such as descriptive statistics, qualitative research design, and measurement and evaluation. Instruction in how to conduct composition research.

ENC 6740: Operating theories of and administrative procedures for implementing writing programs on various levels; focuses on remedial, freshman, advanced, and technical writing programs as well as writing centers.

ENG 6009: Detailed study of bibliographies of cultural milieus, genres, periods, and authors. Consideration of the profession's standards and procedures for publishing scholarly research. In addition to library research, the student will also submit one scholarly article of publishable quality.

ENG 6018: This course examines selected controversies in literary criticism and scholarship from the classical period to 1800, including problems of imitation, the quarrel between Ancients and Moderns, the ethics of the imagination, and the roles of women critics.

ENG 6019: This course focuses on important trends in contemporary literary criticism with the major theoretical texts that inform these trends.

ENG 6916: Intensive small-group discussion as well as shared and individual guided research in one of the student's areas of concentration.
<table>
<thead>
<tr>
<th>DEPT</th>
<th>Course Title</th>
<th>Units</th>
<th>Credits</th>
<th>Gen</th>
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<tr>
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<td>2-19</td>
<td>AS</td>
<td>ENG</td>
<td>PR. CC. S/U.</td>
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<tr>
<td>ENG</td>
<td>Directed Research</td>
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<td>AS</td>
<td>ENG</td>
<td>PR. GR. Ph.D. level. S/U.</td>
<td></td>
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<td>ENG</td>
<td>Doctoral Seminar</td>
<td>3</td>
<td>AS</td>
<td>ENG</td>
<td>PR. Admission to Ph.D. Program.</td>
<td>Intensive small-group discussion as well as shared and individual guided research in a student's area of doctoral specialty.</td>
</tr>
<tr>
<td>ENL</td>
<td>Studies in Old English</td>
<td>3</td>
<td>AS</td>
<td>ENG</td>
<td></td>
<td>A study of Old English language, prose style, poetry.</td>
</tr>
<tr>
<td>ENL</td>
<td>Studies in Middle English</td>
<td>3</td>
<td>AS</td>
<td>ENG</td>
<td></td>
<td>Selected focused studies in language and in various authors and writings, 1100-1500; Chaucer, the Pearl poet, Everyman, ballads, drama.</td>
</tr>
<tr>
<td>ENL</td>
<td>Studies in Sixteenth-Century British Literature</td>
<td>3</td>
<td>AS</td>
<td>ENG</td>
<td></td>
<td>Selected focused studies in sixteenth-century British literature; Shakespeare, Sidney, Spenser, Marlowe, and others.</td>
</tr>
<tr>
<td>ENL</td>
<td>Studies in Seventeenth-Century British Literature</td>
<td>3</td>
<td>AS</td>
<td>ENG</td>
<td></td>
<td>Selected focused studies in British literature, 1600-1660; Bacon, Donne, Jonson, Herbert, Milton, and others.</td>
</tr>
<tr>
<td>ENL</td>
<td>Studies in Restoration and Eighteenth-Century British Literature</td>
<td>3</td>
<td>AS</td>
<td>ENG</td>
<td>Selected focused studies in Restoration and Eighteenth-Century British literature: Dryden, Defoe, Pope, Swift, Fielding, Sheridan, Johnson, Boswell, and others.</td>
<td></td>
</tr>
<tr>
<td>ENL</td>
<td>Studies of the English Romantic Period</td>
<td>3</td>
<td>AS</td>
<td>ENG</td>
<td></td>
<td>A study of pre-Romantic and Romantic prose, fiction, nonfiction, and poetry.</td>
</tr>
<tr>
<td>ENL</td>
<td>Studies in Victorian Literature</td>
<td>3</td>
<td>AS</td>
<td>ENG</td>
<td></td>
<td>A study of Victorian poetry, fiction, non-fictional prose, and drama.</td>
</tr>
<tr>
<td>ENL</td>
<td>Studies in Modern British Literature</td>
<td>3</td>
<td>AS</td>
<td>ENG</td>
<td></td>
<td>A study of Irish and English drama, the modern novel, poetry, criticism, and the short story.</td>
</tr>
<tr>
<td>ENV</td>
<td>Materials Recovery Engineering</td>
<td>3</td>
<td>EN</td>
<td>EGX</td>
<td>PR. ENV 5345 or CI, majors only</td>
<td>Analysis of materials for purposes of processing. Unit operation and plant analysis. Thermal treatment and energy recovery. Unit operations in materials processing and separation. Applications to resource recovery, recycling, mineral, and agricultural materials. Field trip. (PR: ENV 5345; engineers only)</td>
</tr>
<tr>
<td>Course Code</td>
<td>Course Title</td>
<td>Credits</td>
<td>Language</td>
<td>Type</td>
<td>Prerequisites</td>
<td>Description</td>
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<tr>
<td>ENV 6438</td>
<td>Natural &amp; Small Scale Treatment Systems</td>
<td>3</td>
<td>EN</td>
<td>EGX</td>
<td>PR: CI, majors only</td>
<td>A study of the theory, analysis and design of natural aquatic systems to treat wastewater. Emphasis is on use of treated and partially treated wastewater or residues to enhance, restore, or create wetlands, as well as land application.</td>
</tr>
<tr>
<td>ENV 6519</td>
<td>Advanced Physical/Chemical Processes</td>
<td>3</td>
<td>EN</td>
<td>EGX</td>
<td>PR: ENV 6666 or CI, majors only</td>
<td>Theory and design of processes used in advanced water and wastewater treatment, including membrane processes, absorption, electrodialysis, ozonation, irradiation.</td>
</tr>
<tr>
<td>ENV 6539</td>
<td>Sludge Treatment &amp; Disposal</td>
<td>3</td>
<td>EN</td>
<td>EGX</td>
<td>PR: ENV 6667 or CI, majors only</td>
<td>Examines the physical, chemical, and biological unit operations and processes utilized in treating and disposing of sludges produced at water and wastewater treatment facilities.</td>
</tr>
<tr>
<td>ENV 6558</td>
<td>Industrial and Hazardous Waste Treatment</td>
<td>3</td>
<td>EN</td>
<td>EGX</td>
<td>PR: ENV 6667 or CI, majors only</td>
<td>Industrial waste surveys; contemporary industrial wastewater treatment and control methods; characteristics of industrial wastes and their effects on receiving streams.</td>
</tr>
<tr>
<td>ENV 6614</td>
<td>Quantitative Environmental Risk Analysis</td>
<td>3</td>
<td>EN</td>
<td>EGX</td>
<td>PR: Graduate standing in engineering or environmental science discipline; elementary knowledge of programming.</td>
<td>Quantitative approach to the determination of risk. Focus is on environmental and control and protection, but techniques apply widely. Covers assessment of risk factors, failure, contaminant transport, and health effects. Includes discussion of significance, implementation, and policy. Course project involves the development of small risk analysis model.</td>
</tr>
<tr>
<td>ENV 6666</td>
<td>Aquatic Chemistry</td>
<td>3</td>
<td>EN</td>
<td>EGX</td>
<td>PR: CI</td>
<td>An introduction to the form, structure, and chemical activities of the important processes essential to treatment of domestic and industrial wastewater.</td>
</tr>
<tr>
<td>ENV 6667</td>
<td>Environmental Biotechnology</td>
<td>3</td>
<td>EN</td>
<td>EGX</td>
<td>PR: CI</td>
<td>Study of biochemical relations and processes in treatment of pollutants with emphasis on control of effluents for the protection of water quality. CI.</td>
</tr>
<tr>
<td>EPH 6944</td>
<td>Supervised Practicum in Motor Disabilities</td>
<td>3-12</td>
<td>ED</td>
<td>EDS</td>
<td>PR: EEX 4011 or CI, For students seeking certification only. S/U.</td>
<td>Supervised graduate practicum encompassing teaching and supervising experiences in public/private educational or vocational programs for students with physical disabilities in the classroom, hygiene, and educational implications.</td>
</tr>
<tr>
<td>ESE 6215</td>
<td>School Curriculum: Secondary</td>
<td>3</td>
<td>ED</td>
<td>EDC</td>
<td>PR: EDG 4620, EDG 6627</td>
<td>Open to all education graduate students. Examines the organization, curriculum, and instruction of the secondary school with special emphasis on the nature of the students served.</td>
</tr>
<tr>
<td>ESE 6906</td>
<td>Independent Study: Secondary Education</td>
<td>1-6</td>
<td>ED</td>
<td>EDI</td>
<td>S/U.</td>
<td>Independent study in which students must have a contract with an instructor.</td>
</tr>
<tr>
<td>ESE 7910</td>
<td>Directed Research in Secondary Education</td>
<td>1-19</td>
<td>ED</td>
<td>EDI</td>
<td>PR: CI</td>
<td>Directed research under the direction of a faculty member in Secondary Education. Student must have contract with instructor.</td>
</tr>
<tr>
<td>ESI 6213</td>
<td>Theory of Industrial Statistics</td>
<td>3</td>
<td>EN</td>
<td>EGS</td>
<td>PR: ESI 5219 or equiv.</td>
<td>Study of the theory behind the statistical techniques applied to the solving of engineering problems.</td>
</tr>
<tr>
<td>ESI 6225</td>
<td>Quality Assurance Plans</td>
<td>3</td>
<td>EN</td>
<td>EGS</td>
<td>PR: ESI 5219 or equiv., majors only</td>
<td>Advanced techniques in quality control systems. Includes study of articles in current journals.</td>
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<tr>
<td>Course Code</td>
<td>Course Title</td>
<td>Credits</td>
<td>Type</td>
<td>PR:</td>
<td>Description</td>
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<tr>
<td>ESI 6247</td>
<td>Statistical Design Models</td>
<td>3</td>
<td>EN</td>
<td>EGS</td>
<td>PR: ESI 5219 or equiv., majors only. Design of experimental mathematical models.</td>
<td>Application of advanced analysis of variance techniques as applied to industrial problems.</td>
</tr>
<tr>
<td>ESI 6291</td>
<td>Special Topics in Statistics</td>
<td>3</td>
<td>EN</td>
<td>EGS</td>
<td>PR: CC, majors only. Special topics in statistics related with research in engineering.</td>
<td></td>
</tr>
<tr>
<td>ESI 6555C</td>
<td>Topics in Automation</td>
<td>3</td>
<td>EN</td>
<td>EGS</td>
<td>PR: CC, majors only. Study of recent advances in automated systems, automation concepts, control methods, numerical control, adaptive control.</td>
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<tr>
<td>ESI 6906</td>
<td>Independent Study</td>
<td>1-19</td>
<td>EN</td>
<td>EGS</td>
<td>Majors only. S/U. Independent study in which students must have a contract with an instructor.</td>
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<tr>
<td>ESI 7980</td>
<td>Dissertation: Doctoral</td>
<td>2-19</td>
<td>EN</td>
<td>EGS</td>
<td>PR: Admission to Candidacy. Dissertation: Doctoral. A capstone graduate course that integrates issues related to science, policy and management in making decisions. Each semester, the program selects an environmental issue to serve as a case study. Some anticipated themes include global warming, water quantity and quality, air pollution and restoration.</td>
<td></td>
</tr>
<tr>
<td>EVR 6922</td>
<td>ESP Capstone Seminar</td>
<td>3</td>
<td>AS</td>
<td>ESP</td>
<td>PR: Departmental approval required. ESP Capstone Seminar. A seminar course that reviews a major theme or themes in environmental science that integrates knowledge and research from various scientific disciplines.</td>
<td></td>
</tr>
<tr>
<td>EVR 6936</td>
<td>Seminar in Environmental Science</td>
<td>3</td>
<td>AS</td>
<td>ESP</td>
<td>PR: Departmental approval required. Seminar in Environmental Science. A seminar course that reviews a major theme or themes in environmental science that integrates knowledge and research from various scientific disciplines.</td>
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</tr>
<tr>
<td>EVR 6937</td>
<td>Seminar in Environmental Policy</td>
<td>3</td>
<td>AS</td>
<td>ESP</td>
<td>PR: Departmental approval required. Seminar in Environmental Policy. An explanation of the environmental policy process highlighting the scientific, technological and institutional, political, social and economic factors that influence the formulation, application, evaluation and changes of environmental regulations.</td>
<td></td>
</tr>
<tr>
<td>EVT 6264</td>
<td>Administration Of Local Programs: Vocational</td>
<td>3</td>
<td>ED</td>
<td>EDV</td>
<td>PR: Departmental approval required. Administration Of Local Programs: Vocational.</td>
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<tr>
<td>Course Code</td>
<td>Course Title</td>
<td>Credit Hours</td>
<td>Requires</td>
<td>Description</td>
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<tr>
<td>EVT 6265</td>
<td>Supervision Of Local Programs: Vocational Education</td>
<td>3</td>
<td>ED EDV</td>
<td>A study of the factors involved in the supervision of instruction including plans for teacher education, improvement of instruction, coordination of activities, and personnel relations.</td>
<td></td>
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<tr>
<td>EVT 6500</td>
<td>Individualized Instruction</td>
<td>3</td>
<td>ED EDV</td>
<td>Emphasis given to individualized instruction to include the special needs student, the slow learner, and the more capable student.</td>
<td></td>
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</tr>
<tr>
<td>EVT 6504</td>
<td>Placement of Severely Handicapped People</td>
<td>3</td>
<td>ED EDV</td>
<td>A study of the purpose, methods, processes, and procedures used to plan, implement, and operate a Vocational Rehabilitation Cooperative School Counseling Program.</td>
<td></td>
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</tr>
<tr>
<td>EVT 6661</td>
<td>Current Trends</td>
<td>3</td>
<td>ED EDV</td>
<td>Historical information, issues, current trends, new dimensions, and problems in adult and vocational education and related areas.</td>
<td></td>
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<tr>
<td>EVT 6769</td>
<td>Methods, Procedures, and Processes of Vocational Evaluation</td>
<td>3</td>
<td>ED EDV</td>
<td>A study of the purposes, methods, processes and procedures used to plan, implement, and operate a vocational evaluation program.</td>
<td></td>
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<tr>
<td>EVT 6926</td>
<td>Staff Development</td>
<td>1-5</td>
<td>ED EDV</td>
<td>Implementation of new procedures addressed to discrete developmental needs of the staff as identified by an educational agency.</td>
<td></td>
<td></td>
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<tr>
<td>EVT 6930</td>
<td>Seminar</td>
<td>3</td>
<td>ED EDV</td>
<td>Focuses on special topics, interaction with visiting scholars, recent research and major initiatives within the profession.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>EVT 6948</td>
<td>Practicum: Industrial-Technical Education</td>
<td>3-6</td>
<td>ED EDV</td>
<td>S/U. A problem-centered field study in the local community, school, government, office, social agency, business, or industry.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>EVT 7066</td>
<td>Foundations And Philosophy Of Vocational, Technical And Adult Education</td>
<td>3</td>
<td>ED EDV</td>
<td>PR: Preliminary admission to the advanced graduate program and/or CI. Historical development and contemporary philosophies, cultural bases and practices of Vocational, Technical, and Adult Education.</td>
<td></td>
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<tr>
<td>EVT 7155</td>
<td>Career Development in Vocational, Technical, and Adult education</td>
<td>3</td>
<td>ED EDV</td>
<td>PR: Preliminary admission to the advanced Graduate Program and CI. Development of a career model designed to facilitate career development of students and articulate vocational education and career guidance.</td>
<td></td>
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<tr>
<td>EVT 7168</td>
<td>Instructional Development For Vocational, Technical, And Adult Education</td>
<td>4</td>
<td>ED EDV</td>
<td>The systematic approach to vocational, technical, and adult education curriculum improvement and instructional development. Students will apply an instructional systems approach to the development of practical solutions to critical teaching and learning problems.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>EVT 7267</td>
<td>Vocational And Adult Education Program Planning And Implementation</td>
<td>3</td>
<td>ED EDV</td>
<td>Knowledge and skills necessary to participate in the initial determination, planning, organization, and implementation of new or expanded adult, vocational and technical education institutions or programs.</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
### EVT 7761 Research Seminar In Vocational, Technical, And Adult Education
- Credit: 3
- Department: EDV
- Prerequisites: Completion of program requirements in measurement and research or DPR. Available to majors only.
- Description: Examination and critical evaluation of research in a particular specialization area of Vocational, Technical, or Adult Education. Preparation of an individual research prospectus.

### EVT 7910 Directed Research in Vocational Education
- Credit: 1-19
- Department: EDV
- Prerequisites: CI.
- Description: This course permits a doctoral student to conduct advanced research and to pursue specific areas of interest with a faculty member as supervisor. A contract is required with the faculty member.

### EVT 7980 Dissertation
- Credit: 2-30
- Department: EDV
- Prerequisites: Admitted to Candidacy.

### EXP 6307 Motivation and Emotion
- Credit: 3
- Department: PSY
- Prerequisites: CI.
- Description: A detailed examination of human motivation and emotion from both the physiological and psychological viewpoints.

### EXP 6526 Human Memory
- Credit: 3
- Department: PSY
- Prerequisites: Admission to graduate program in Psychology or CI.
- Description: Review of methods, findings, and theoretical interpretations associated with the acquisition and retention of information.

### EXP 6608 Cognitive Psychology
- Credit: 2
- Department: PSY
- Prerequisites: Admission to graduate program in Psychology or CI.
- Description: A survey of the research and theory dealing with higher memory, language, and the higher mental processes. Core requirement for all graduate students in Psychology.

### EXP 6643 Psychology of Language
- Credit: 3
- Department: PSY
- Prerequisites: GS.
- Description: Historical survey of relations between psychology and linguistics leading to the emergence of psycholinguistics as a field of study. Current status of theory and research in the field.

### EXP 6930 Topics in Experimental Psychology
- Credit: 3
- Department: PSY
- Prerequisites: CI.
- Description: Electrophysiological methods and psychophysiology.

### EXP 7099 Graduate Seminar in Experimental Psychology
- Credit: 1-3
- Department: PSY
- Prerequisites: CI.
- Description: Seminars on topics, such as learning, perception, memory, cognitive processes, and quantitative methods.

### FIL 6206C Cinematography
- Credit: 4
- Department: ART
- Prerequisites: CI. Registration by contract only.
- Description: The study of the role of financial markets, instruments, and institutions in the economy. It includes the study of flow of funds, interest rate determination, and the pricing of capital assets.

### FIN 6246 Advanced Money and Capital Markets
- Credit: 3
- Department: FIN
- Prerequisites: ECO 6204.
- Description: Theory, policy and practice of commercial bank management with emphasis on strategic issues and decision making in an expanding financial services environment.

### FIN 6326 Bank Management
- Credit: 3
- Department: FIN
- Prerequisites: FIN 6406.
- Description: The study of processes, decision structures, and institutional arrangements concerned with the acquisition and utilization of funds by a firm. The course includes the management of the asset and liability structures of the firm under both certainty and uncertainty.
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
<th>Level</th>
<th>Department</th>
<th>Prerequisites</th>
<th>Description</th>
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<tbody>
<tr>
<td>FIN 6416</td>
<td>Advanced Financial Management</td>
<td>3</td>
<td>BA</td>
<td>FIN</td>
<td>PR: FIN 6406 or equivalent.</td>
<td>A synthesis of the theory and the practice of corporate finance. Particular attention is given to the role of the agency problems and agency cost in explaining why the observed consequences of financial decisions often deviate from those predicted by traditional theory.</td>
</tr>
<tr>
<td>FIN 6418</td>
<td>Working Capital Management</td>
<td>3</td>
<td>BA</td>
<td>FIN</td>
<td>PR: FIN 6406</td>
<td>This course is designed to provide the student with an understanding of short-term financial management which includes decision making concerning sources and uses of cash flows to support short-term operations.</td>
</tr>
<tr>
<td>FIN 6445</td>
<td>Financial Policy</td>
<td>3</td>
<td>BA</td>
<td>FIN</td>
<td>PR: FIN 6406 or CI</td>
<td>A case study approach to financial policy and strategy with emphasis on the firm's major financial decisions.</td>
</tr>
<tr>
<td>FIN 6515</td>
<td>Investments</td>
<td>3</td>
<td>BA</td>
<td>FIN</td>
<td>PR: FIN 6406, CC</td>
<td>An examination of the risks and returns of alternative investment media within the framework of various valuation models. Special attention is given to the investment process and the criteria for investment decisions.</td>
</tr>
<tr>
<td>FIN 6605</td>
<td>International Financial Management</td>
<td>3</td>
<td>BA</td>
<td>FIN</td>
<td>PR: FIN 6406 or equiv., CC</td>
<td>The course provides a foundation for the understanding of financial management of international business. The subjects covered relate to international finance, multinational business finance, and financial market theory. A systematic and rigorous course in the theory of finance. Topics will include the theory of choice and the allocation of financial resources, the theory of optimal investment decisions and the theory of risk and uncertainty in financial decisions. It will also cover the theoretical concepts underlying financing decisions and the cost of capital.</td>
</tr>
<tr>
<td>FIN 6804</td>
<td>Theory of Finance</td>
<td>3</td>
<td>BA</td>
<td>FIN</td>
<td>PR: FIN 6406 or CI</td>
<td></td>
</tr>
<tr>
<td>FIN 6906</td>
<td>Independent Study</td>
<td>Var.</td>
<td>BA</td>
<td>FIN</td>
<td>PR: CC. S/U.</td>
<td>Students must have a contract with an instructor.</td>
</tr>
<tr>
<td>FIN 6915</td>
<td>Directed Research</td>
<td>Var.</td>
<td>BA</td>
<td>FIN</td>
<td>PR: GR, ML, CC. S/U.</td>
<td></td>
</tr>
<tr>
<td>FIN 6934</td>
<td>Selected Topics in Finance</td>
<td>1-4</td>
<td>BA</td>
<td>FIN</td>
<td>PR: GS and CI.</td>
<td>Depending upon the scope and magnitude of the work required. Includes special lecture series.</td>
</tr>
<tr>
<td>FIN 7808</td>
<td>Advanced Micro Finance</td>
<td>3</td>
<td>BA</td>
<td>FIN</td>
<td>PR: FIN 6406, FIN 6804, ECO 6424 or Departmental approval.</td>
<td>The study of advanced theoretical and empirical works in finance primarily relating to financial decisions at the level of the firm.</td>
</tr>
<tr>
<td>FIN 7817</td>
<td>Financial Markets</td>
<td>3</td>
<td>BA</td>
<td>FIN</td>
<td>PR: FIN 6246, FIN 6515, or Departmental approval.</td>
<td>The study of advanced theoretical and empirical works in finance primarily relating to financial institutions and markets.</td>
</tr>
<tr>
<td>FIN 7930</td>
<td>Selected Topics in Finance</td>
<td>3</td>
<td>BA</td>
<td>FIN</td>
<td>PR: FIN 7808, QMB 7566, or Departmental approval.</td>
<td>A study of selected topics of current issues on the frontiers of financial thought.</td>
</tr>
<tr>
<td>FIN 7935</td>
<td>Finance Research Seminar</td>
<td>3</td>
<td>BA</td>
<td>FIN</td>
<td>PR: One semester of FIN 7930.</td>
<td>Theoretical and/or empirical research on finance related problems. This course will require research papers to be written and presented. It is designed to aid the student in developing a thesis and the research methodology necessary for the doctoral dissertation.</td>
</tr>
<tr>
<td>Code</td>
<td>Course Title</td>
<td>Credits</td>
<td>Type</td>
<td>Instructor</td>
<td>Prerequisites</td>
<td>Description</td>
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<tr>
<td>FIN</td>
<td>Dissertation</td>
<td>2-19</td>
<td>BA</td>
<td>FIN</td>
<td>PR: Admission to Candidacy.</td>
<td></td>
</tr>
<tr>
<td>FLE</td>
<td>Graduate Instruction Methods</td>
<td>1-4</td>
<td>AS</td>
<td>EDX</td>
<td>PR: CC. S/U only.</td>
<td>Special course to be used primarily for the training of graduate teaching assistants.</td>
</tr>
<tr>
<td>FLE</td>
<td>Independent Study in Foreign Language Education</td>
<td>1-6</td>
<td>ED</td>
<td>EDX</td>
<td></td>
<td>Independent Study in which students must have a contract with an instructor. Rpt. S/U</td>
</tr>
<tr>
<td>FLE</td>
<td>Selected Topics in Second Language Acquisition</td>
<td>3</td>
<td>ED</td>
<td>EDX</td>
<td>PR: Approval of graduate advisor.</td>
<td>This course would provide a flexible format to offer specialized courses in second language acquisition not available in the regular curriculum. This would allow faculty to address issues at the frontiers of the field in second language acquisition. Repeat as topics vary.</td>
</tr>
<tr>
<td>FLE</td>
<td>Internship</td>
<td>6</td>
<td>ED</td>
<td>EDX</td>
<td>PR: CI</td>
<td>Provides students with an extended school-based experience, under the guidance of a cooperating teacher and university supervisor, for a full semester at or near the end of their graduate program. Open to graduate degree candidates only. S/U (PR: CI)</td>
</tr>
<tr>
<td>FLE</td>
<td>Advanced Seminar in Foreign Language Education</td>
<td>3</td>
<td>ED</td>
<td>EDX</td>
<td>PR: FLE 6665</td>
<td>Advanced readings and discussion of theories, perspectives and issues in foreign/second language education from K-20, including examination of current practices, action research, accreditidation, certification, teacher development, and assessment in the field.</td>
</tr>
<tr>
<td>FLE</td>
<td>Dissertation</td>
<td>2-18</td>
<td>ED</td>
<td>EDX</td>
<td>PR: Admission to Candidacy.</td>
<td></td>
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<tr>
<td>FOW</td>
<td>Bibliography</td>
<td>1</td>
<td>AS</td>
<td>WLE</td>
<td></td>
<td>Research methods. Includes familiarity with major journals and bibliographies, with a practicum.</td>
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<tr>
<td>FRW</td>
<td>Seminar on Classical Drama</td>
<td>3</td>
<td>AS</td>
<td>WLE</td>
<td></td>
<td>An in-depth study of the works of one or more of the following dramatists: Corneille, Racine, or Moliere.</td>
</tr>
<tr>
<td>FRW</td>
<td>Old French</td>
<td>3</td>
<td>AS</td>
<td>WLE</td>
<td></td>
<td>An introduction to the Old French language and literature. Readings from representative texts.</td>
</tr>
<tr>
<td>Course Code</td>
<td>Course Title</td>
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<td>Type</td>
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<td>FRW 6938</td>
<td>Graduate Seminar</td>
<td>3</td>
<td>AS</td>
<td>WLE</td>
<td>Topics vary.</td>
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<tr>
<td>GEA 6195</td>
<td>Seminar in Advanced Regional Geography</td>
<td>3</td>
<td>AS</td>
<td>GPY</td>
<td>Analytic study of a selected region of the world.</td>
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<tr>
<td>GEA 6215</td>
<td>Seminar in North American Geography</td>
<td>3</td>
<td>AS</td>
<td>GPY</td>
<td>Advanced survey of historical and contemporary issues in North American geography including west and non-west exchange, revolutionary transformation, nation-building, regional disparities, and continental relations among states.</td>
<td></td>
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<tr>
<td>GEA 6252</td>
<td>Seminar in the Geography of the American South</td>
<td>3</td>
<td>AS</td>
<td>GPY</td>
<td>Intensive examination of regional geographic studies and their application to the American South, including concepts related to the physical and cultural landscapes, economic growth and change, urbanization, and cultural diffusion processes.</td>
<td></td>
</tr>
<tr>
<td>GEA 6405</td>
<td>Seminar in Latin American and Caribbean Geography</td>
<td>3</td>
<td>AS</td>
<td>GPY</td>
<td>Readings and discussions organized around an examination of regional and systematic analysis of selected topics of Latin American and Caribbean geography. Emphasis is on combining physical and cultural analysis of this region.</td>
<td></td>
</tr>
<tr>
<td>GEA 6504</td>
<td>Seminar in European Geography</td>
<td>3</td>
<td>AS</td>
<td>GPY</td>
<td>Readings and discussions organized around an examination of regional and systematic analysis of selected topics of European Geography. Emphasis is on combining physical and cultural analysis of this region.</td>
<td></td>
</tr>
<tr>
<td>GEA 6745</td>
<td>Seminar in the Geography of South Asia</td>
<td>3</td>
<td>AS</td>
<td>GPY</td>
<td>Analysis of the construction of regional identity in South Asia. Includes major historical processes such as cultural and social formation, communalism, the role of women, or environmental concerns.</td>
<td></td>
</tr>
<tr>
<td>GEB 6115</td>
<td>New Venture Formation</td>
<td>3</td>
<td>BA</td>
<td>MBA</td>
<td>PR: ACG 6025, MAR 6815, or CI. An introductory entrepreneurship course. Students learn to develop venture ideas, evaluate venture opportunities and understand financial, marketing, and managerial needs of a venture.</td>
<td></td>
</tr>
<tr>
<td>GEB 6116</td>
<td>Business Plan Development</td>
<td>3</td>
<td>BA</td>
<td>MBA</td>
<td>PR: ACG 6025, MAR 6815, or CI. Course is designed to enable students to prepare and present a business/venture plan. Students can prepare a plan for their own venture or a &quot;client organization.&quot;</td>
<td></td>
</tr>
<tr>
<td>GEB 6117</td>
<td>Consulting Field Project</td>
<td>3</td>
<td>BA</td>
<td>MBA</td>
<td>PR: ACG 6025, MAR 6815 or CI. Student will be teamed with an entrepreneurial organization and will learn to prepare a business plan, feasibility study, strategic marketing plan or some other work agreed upon by client, student and instructor. Third course in entrepreneurship Track.</td>
<td></td>
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<tr>
<td>GEB 6445</td>
<td>Social, Ethical, Legal Systems</td>
<td>2</td>
<td>BA</td>
<td>MBA</td>
<td>PR: GS. A study of the influence of social, cultural, legal, and political environment of institutional behavior, including the changing nature of the business system, the public policy process, corporate power, legitimacy and managerial autonomy, and organizational reactions to environmental forces.</td>
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<tr>
<td>GEB 6895</td>
<td>Integrated Business Applications I</td>
<td>3</td>
<td>BA</td>
<td>MBA</td>
<td>PR: CC. Part I of advanced study of business decision-making processes under conditions of risk and uncertainty, including integrating analysis and policy formation at the general management level.</td>
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<tr>
<td>GEB 6896</td>
<td>Integrated Business Applications II</td>
<td>3</td>
<td>BA</td>
<td>MBA</td>
<td>PR: GEB 6895. Part II of advanced study of business decision-making processes under conditions of risk and uncertainty, including integrating analysis and policy formation at the general management level.</td>
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<td>Course Code</td>
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<td>Credits</td>
<td>Level</td>
<td>Area</td>
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<tr>
<td>GEB 6930</td>
<td>Selected Topics</td>
<td>3</td>
<td>BA</td>
<td>MBA</td>
<td>PR: GS.</td>
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<tr>
<td></td>
<td>The content and organization of this course will vary depending on student demand and faculty interest.</td>
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<tr>
<td>GEB 6949</td>
<td>Consulting Field Project</td>
<td>3</td>
<td>BA</td>
<td>GBA</td>
<td>PR: ACG 6025; MAR 6815 or CI.</td>
<td></td>
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<tr>
<td></td>
<td>Student will be teamed with an entrepreneurial organization and will learn to prepare a business plan, feasibility study, strategic marketing plan or some other work agreed upon by client, student and instructor. Third course in Entrepreneurship Track.</td>
<td></td>
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<tr>
<td>GEB 6971</td>
<td>Thesis: Master's</td>
<td>1-19</td>
<td>BA</td>
<td>MBA</td>
<td>PR: Senior or graduate standing in geography or CI.</td>
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<tr>
<td>GEO 6058</td>
<td>Geographic Literature and History</td>
<td>3</td>
<td>AS</td>
<td>GPY</td>
<td>PR: Senior or graduate standing in geography or CI.</td>
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<tr>
<td>GEO 6115</td>
<td>Advanced Field Techniques</td>
<td>3</td>
<td>AS</td>
<td>GPY</td>
<td>PR: GS in Geography or CI.</td>
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<tr>
<td>GEO 6116</td>
<td>Perspectives on Environmental Thought</td>
<td>3</td>
<td>AS</td>
<td>GPY</td>
<td>PR: GEO 6058 or CI.</td>
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<tr>
<td>GEO 6119</td>
<td>Seminar in Advanced Techniques and Methodology</td>
<td>3</td>
<td>AS</td>
<td>GPY</td>
<td>PR: GS in Geography</td>
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<tr>
<td>GEO 6137</td>
<td>Readings in Remote Sensing</td>
<td>3</td>
<td>AS</td>
<td>GPY</td>
<td>PR: GEO 5134C.</td>
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<tr>
<td>GEO 6146</td>
<td>Readings in GIS</td>
<td>3</td>
<td>AS</td>
<td>GPY</td>
<td>PR: GEO 5157 or CI.</td>
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<tr>
<td>GEO 6166</td>
<td>Advanced Statistical Methods</td>
<td>3</td>
<td>AS</td>
<td>GPY</td>
<td>PR: GS in Geography or CI, GEO 3164C.</td>
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<tr>
<td>GEO 6178</td>
<td>Environmental Applications of Geographic Information Systems</td>
<td>3</td>
<td>AS</td>
<td>GPY</td>
<td>PR: GEO 5157</td>
<td></td>
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<tr>
<td>GEO 6209C</td>
<td>Seminar in Advanced Physical Geography</td>
<td>3</td>
<td>AS</td>
<td>GPY</td>
<td>PR: GS in Geography or CI</td>
<td></td>
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<tr>
<td>GEO 6217</td>
<td>Historical Geomorphology</td>
<td>3</td>
<td>AS</td>
<td>GPY</td>
<td>PR: GS in Geography or CI</td>
<td></td>
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</tbody>
</table>

An in-depth examination of the use of historical evidence in geomorphic studies. The objectives, methods and results of studies in which historical sources have been applied to geomorphic problems are reviewed.
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
<th>Category</th>
<th>Prerequisites</th>
<th>Description</th>
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<tbody>
<tr>
<td>GEO 6255</td>
<td>Weather, Climate and Society</td>
<td>3</td>
<td>AS</td>
<td>GPY</td>
<td>This course explores the societal impacts of weather as well as the human impact on weather and climate. Students lead and participate in discussions on topics such as weather hazards, extreme temperature and human physiology, historical civilization and extreme climate, economic value of forecasts, weather modification, urbanization and other land use change, anthropogenic aerosols, past and future climates.</td>
</tr>
<tr>
<td>GEO 6286</td>
<td>Advances in Water Resources</td>
<td>3</td>
<td>AS</td>
<td>GPY</td>
<td>Water resources policies are viewed from theoretical and practical perspectives focusing on management strategies in different physical and human environments.</td>
</tr>
<tr>
<td>GEO 6428</td>
<td>Seminar in Advanced Human Geography</td>
<td>3</td>
<td>AS</td>
<td>GPY, PR: GS in Geography or CI</td>
<td>Analytic study of a problem selected from aspects of the human landscape (urban, political, economic, population, settlement).</td>
</tr>
<tr>
<td>GEO 6566</td>
<td>Site Feasibility Analysis</td>
<td>3</td>
<td>AS</td>
<td>GPY, PR: GS in Geography or CI</td>
<td>A project-oriented geographic examination of urban real estate development and site feasibility practices. Hands-on course including concepts of real estate development patterns, urban growth, and site specific factors related to feasibility of specific developments.</td>
</tr>
<tr>
<td>GEO 6908</td>
<td>Independent Study</td>
<td>1-19</td>
<td>AS</td>
<td>GPY, S/U.</td>
<td>Independent study in which students must have a contract with an instructor.</td>
</tr>
<tr>
<td>GEO 6918</td>
<td>Directed Research</td>
<td>1-19</td>
<td>AS</td>
<td>GPY, PR: GR, ML, CC, S/U.</td>
<td>The internship in Geography is designed to provide students the opportunity to work in an appropriate governmental agency to gain practical field experience.</td>
</tr>
<tr>
<td>GEO 6944</td>
<td>Internship in Geography</td>
<td>3</td>
<td>AS</td>
<td>GPY, PR: GS in Geography, CC, S/U.</td>
<td></td>
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<tr>
<td>GER 6060</td>
<td>German for Reading</td>
<td>3</td>
<td>AS</td>
<td>WLE</td>
<td>Designed to provide a reading ability in German that will support research in other disciplines.</td>
</tr>
<tr>
<td>GER 6908</td>
<td>Independent Study</td>
<td>1-19</td>
<td>AS</td>
<td>WLE, PR: CC, S/U.</td>
<td>Independent study in which student must have a contract with an instructor.</td>
</tr>
<tr>
<td>GEY 6325</td>
<td>Social Policy and Planning for Gerontologists</td>
<td>3</td>
<td>AS</td>
<td>GEY</td>
<td>This course is designed to provide an empirical and analytical base for understanding the major issues and trends involved in existing and proposed programs and services in the field of aging at local, state, and federal levels.</td>
</tr>
<tr>
<td>Course Code</td>
<td>Course Title</td>
<td>Credits</td>
<td>Department</td>
<td>Prerequisites</td>
<td></td>
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<tr>
<td>GEY 6340</td>
<td>Housing for the Elderly</td>
<td>3</td>
<td>GEY</td>
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<tr>
<td>GEY 6450</td>
<td>Gerontological Research and Planning</td>
<td>3</td>
<td>GEY</td>
<td>PR: CI</td>
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<tr>
<td>GEY 6500</td>
<td>Seminar in Principles of Administration</td>
<td>3</td>
<td>GEY</td>
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<tr>
<td>GEY 6600</td>
<td>Human Development and Aging</td>
<td>3</td>
<td>GEY</td>
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<tr>
<td>GEY 6613</td>
<td>Physical Change and Aging</td>
<td>3</td>
<td>GEY</td>
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<tr>
<td>GEY 6614</td>
<td>Psychopathology and Aging I</td>
<td>3</td>
<td>GEY</td>
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<tr>
<td>GEY 6615</td>
<td>Psychopathology and Aging II</td>
<td>3</td>
<td>GEY</td>
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<tr>
<td>GEY 6616</td>
<td>Mental Health Assessment of Older Adults</td>
<td>3</td>
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<td>GEY 6617</td>
<td>Gerontological Counseling Theories and Practice</td>
<td>3</td>
<td>GEY</td>
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<tr>
<td>GEY 6618</td>
<td>Gerontological Group and Family Counseling</td>
<td>3</td>
<td>GEY</td>
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<tr>
<td>GEY 6646</td>
<td>Gerontological Issues and Concepts</td>
<td>3</td>
<td>GEY</td>
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<tr>
<td>GEY 6647</td>
<td>Ethical and Legal Issues in Aging</td>
<td>3</td>
<td>GEY</td>
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<td>Course Code</td>
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<td>Credits</td>
<td>Department</td>
<td>Prerequisites</td>
<td>Description</td>
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<tr>
<td>GEY 6901</td>
<td>Directed Reading</td>
<td>1-6 AS</td>
<td>GEY</td>
<td>PR: CL S/U.</td>
<td>A reading program of selected topics under the supervision of a faculty member.</td>
</tr>
<tr>
<td>GEY 6910</td>
<td>Directed Research</td>
<td>1-6 AS</td>
<td>GEY</td>
<td>PR: CL S/U.</td>
<td>Courses on topics such as preretirement, mental health, human services organization, and senior center administration.</td>
</tr>
<tr>
<td>GEY 6934</td>
<td>Special Topics In Gerontology</td>
<td>3 AS</td>
<td>GEY</td>
<td></td>
<td>An internship in an agency or organization engaged in planning or administering programs for older people of in providing direct services for older people.</td>
</tr>
<tr>
<td>GEY 6940</td>
<td>Field Placement</td>
<td>1-6 AS</td>
<td>GEY</td>
<td>PR: CL S/U.</td>
<td>A highly structured supervised counseling experience providing mental health services to older adults.</td>
</tr>
<tr>
<td>GEY 6941</td>
<td>Field Placement in Mental Health</td>
<td>1-6 AS</td>
<td>GEY</td>
<td>PR: CL S/U.</td>
<td>Research on selected topics in aging studies under the direct supervision of a member of the graduate faculty in aging studies.</td>
</tr>
<tr>
<td>GEY 6971</td>
<td>Thesis: Master's</td>
<td>2-19 AS</td>
<td>GEY</td>
<td>S/U.</td>
<td>An advanced reading program of selected topics related to interdisciplinary avenues of inquiry under the supervision of an aging studies faculty member. A written contract describing the requirements must be signed by the student and faculty member prior to registration.</td>
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<tr>
<td>GEY 7902</td>
<td>Directed Individual Study in Aging Studies</td>
<td>1-9 AS</td>
<td>GEY</td>
<td></td>
<td>Reading and discussion of current topics, books, articles, and papers in aging studies. Examination of theory and research issues in the field of gerontology. Students develop their dissertation research topics, preliminary review of literature, and present their dissertation research proposals.</td>
</tr>
<tr>
<td>GEY 7911</td>
<td>Directed Research in Aging Studies</td>
<td>1-3 AS</td>
<td>GEY</td>
<td></td>
<td></td>
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<tr>
<td>GEY 7936</td>
<td>Proseminar in Aging Studies</td>
<td>1-2 AS</td>
<td>GEY</td>
<td></td>
<td>Regional structure, stratigraphy, and history of North America.</td>
</tr>
<tr>
<td>GEY 7980</td>
<td>Dissertation and Doctoral</td>
<td>2-12 AS</td>
<td>GEY</td>
<td>PR: Completion of Qualifying Examination, Admission to Candidacy.</td>
<td>Age, formation and evolution of the earth with application of basic chemical concepts and processes that govern the distribution of elements in geologic environments.</td>
</tr>
<tr>
<td>GLY 6156</td>
<td>Geology of North America</td>
<td>2 AS</td>
<td>GLY</td>
<td>PR: GS or CI.</td>
<td>The geochemistry of fluid-rock interaction with emphasis on the diagenesis of sedimentary material.</td>
</tr>
<tr>
<td>GLY 6246</td>
<td>General Geochemistry</td>
<td>3 AS</td>
<td>GLY</td>
<td>PR: One year college Chemistry, GLY 3200 or CI.</td>
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<tr>
<td>GLY 6248</td>
<td>Sedimentary Geochemistry</td>
<td>3 AS</td>
<td>GLY</td>
<td>PR: GLY 6246 or CI.</td>
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<td>Course Title</td>
<td>Credits</td>
<td>Units</td>
<td>PR / Requirements</td>
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<tr>
<td>GLY 6285C</td>
<td>Analytical Techniques in Geology</td>
<td>3</td>
<td>AS</td>
<td>GLY PR: One year college Chemistry, GLY 4310 or CI.</td>
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<tr>
<td>GLY 6315C</td>
<td>Topics in Igneous and Metamorphic Petrology</td>
<td>3</td>
<td>AS</td>
<td>GLY PR: GLY 3311C or equivalent, or CI.</td>
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<tr>
<td>GLY 6345</td>
<td>Sedimentary Petrography</td>
<td>3</td>
<td>AS</td>
<td>GLY PR: GS or CI.</td>
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<tr>
<td>GLY 6424</td>
<td>Global Tectonics</td>
<td>2</td>
<td>AS</td>
<td>GLY PR: GS or CI.</td>
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<tr>
<td>GLY 6475C</td>
<td>Principles of Applied Geophysics</td>
<td>4</td>
<td>AS</td>
<td>GLY PR: One year of Physics or CI.</td>
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<tr>
<td>GLY 6526</td>
<td>Advanced Stratigraphy</td>
<td>3</td>
<td>AS</td>
<td>GLY PR: OCG 6656 or equiv. or CI.</td>
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<tr>
<td>GLY 6575C</td>
<td>Coastal Sedimentation</td>
<td>3</td>
<td>AS</td>
<td>GLY PR: GLY 4555 or equiv. or CI.</td>
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<tr>
<td>GLY 6655</td>
<td>Topics in Paleobiology</td>
<td>3</td>
<td>AS</td>
<td>GLY PR: GLY 3610 equiv., PCB 4674 or equiv. or CI.</td>
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<tr>
<td>GLY 6739</td>
<td>Selected Topics in Geology</td>
<td>1-4</td>
<td>AS</td>
<td>GLY PR: CI.</td>
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<tr>
<td>GLY 6827C</td>
<td>Advanced Hydrogeology</td>
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<td>AS</td>
<td>GLY PR: GLY 4822, one year college calculus or CI.</td>
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<tr>
<td>GLY 6828</td>
<td>Ground-Water Geochemistry</td>
<td>3</td>
<td>AS</td>
<td>GLY PR: One year of college Chemistry, GLY 4822, GLY 6246, or CI.</td>
<td></td>
</tr>
<tr>
<td>GLY 6905</td>
<td>Independent Study</td>
<td>1-19</td>
<td>AS</td>
<td>GLY PR: CC. S/U.</td>
<td></td>
</tr>
<tr>
<td>GLY 6910</td>
<td>Directed Research</td>
<td>1-19</td>
<td>AS</td>
<td>GLY PR: GR. ML., CC. S/U.</td>
<td></td>
</tr>
</tbody>
</table>

Use and application of analytical methods including X-ray, atomic absorption, ICP/MS, TEM, SEM, and other geochronological techniques. Interpretation and statistical analysis of the data acquired. Lec./Lab.

Detailed study of selected igneous and/or metamorphic rock associations. The targeted site(s) will vary each semester. Modern methods of geochemical and mineralogical analysis (microprobe, ICP/DCP, XRD) will be employed. Lec./Lab.

Classification, petrographic description and interpretation of sedimentary rocks including depositional environment and diagenesis. Lec./Lab.

Development of the global tectonic hypothesis, global tectonic theory, and application of the theory in selected regions of the earth.

Elementary treatment of gravimetric, magnetic, electric, and seismic geophysical techniques as applied to resource exploration, site investigation, and mineral deposits. Lec./Lab. Field trips.


Study of modern coastal sedimentary environments with emphasis on beaches, inlets, deltas, estuaries, and marshes. Analysis of sedimentary process and resulting morphology of sediment bodies. Lec./Lab. Field trips.

Theory and practice of modern paleobiology including, consideration of diversity and extinction patterns, documentation and causes of trends, patterns, and causes of speciation, functional analysis and adaptation, tempo and mode in evolution, and the ecological context of evolutionary change.

Each topic is a course directed by a faculty member. All areas of geology are included.

Flow systems, analytical and numerical solutions to ground-water flow problems. Emphasis on the theoretical aspects of ground-water flow systems and their interaction with the geologic framework. Lec./Lab. Field trips.

Chemical behavior of ground water. Includes interaction of water with aquifer materials, chemical effects of waste disposal, use of chemical tracers, and transport of hazardous chemicals. Methods of sampling and data interpretation are emphasized. Lee.

Independent study in which student must have a contract with an instructor.
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
<th>Type</th>
<th>Department</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>GLY 6931</td>
<td>Graduate Seminar</td>
<td>1 AS</td>
<td>GLY</td>
<td>PR: CC/S/U</td>
<td>Current topics in Geology.</td>
</tr>
<tr>
<td>GLY 6933</td>
<td>Advanced Topics in Geology</td>
<td>2 AS</td>
<td>GLY</td>
<td>PR: GS.</td>
<td>Current topics in Geology.</td>
</tr>
<tr>
<td>GLY 7912</td>
<td>Directed Research</td>
<td>1-30 AS</td>
<td>GLY</td>
<td>PR: GR. Ph.D. Level, S/U.</td>
<td></td>
</tr>
<tr>
<td>GLY 7980</td>
<td>Dissertation: Doctoral</td>
<td>2-19 AS</td>
<td>GLY</td>
<td>PR: Admission to Candidacy, S/U.</td>
<td></td>
</tr>
<tr>
<td>GMS 6001</td>
<td>Foundation in Biomedical Sciences</td>
<td>4-8 MD</td>
<td>MSG</td>
<td>PR: B.S./B.A. and admission into a Graduate Program at the University of South Florida. In instructor permission required for those not meeting prerequisites.</td>
<td></td>
</tr>
<tr>
<td>GMS 6020</td>
<td>Neuroscience</td>
<td>5-6 MD</td>
<td>MSG</td>
<td>PR: CL.</td>
<td></td>
</tr>
<tr>
<td>GMS 6056</td>
<td>Cancer Research Techniques</td>
<td>4 MD</td>
<td>MSG</td>
<td>PR: CI or CC.</td>
<td></td>
</tr>
<tr>
<td>GMS 6065</td>
<td>Advances in Cancer Research</td>
<td>2 MD</td>
<td>MSG</td>
<td>PR: CL.</td>
<td></td>
</tr>
<tr>
<td>GMS 6080</td>
<td>Cancer Biology Lab Rotations</td>
<td>1-3 MD</td>
<td>MSG</td>
<td>PR: CL.</td>
<td></td>
</tr>
<tr>
<td>GMS 6107</td>
<td>Advances in Virology</td>
<td>2 MD</td>
<td>MSG</td>
<td></td>
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</tr>
<tr>
<td>GMS 6431</td>
<td>Cell Physiology</td>
<td>4 MD</td>
<td>MSG</td>
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</tr>
</tbody>
</table>

*PR: Pre-requisite.*

GMS 6001: A multidisciplinary course in the cellular, molecular, biochemical, and genetic basis of biomedical sciences, designed as a comprehensive first semester course for most incoming biomedical sciences graduate students.

GMS 6020: An introduction into basic structure and function of the central nervous system. Emphasis is on an integrated approach that focuses on several levels of organization from molecular to cellular, from neural systems to behavior.

GMS 6056: An introduction to modern core research facilities and methodologies used in cancer research. Lec., Lab., Dem. Department Approval Required.

GMS 6065: Participants will read and orally present current breaking research. They will gain experience in critically evaluating research reports.

GMS 6080: The course covers regulation of viral replication and the effects of virus infection on host cell function and survival.

GMS 6431: Examine organelles and macromolecular complexes of eukaryotic cells with respect to structural and functional roles in major cellular activities. Emphasizes on experimental basis for factual knowledge in modern cell biology, discusses the validity of current concepts in relation to the regulation of cellular functions. Suitable for first and second year graduate students.
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
<th>Department(s)</th>
<th>Prerequisites</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>GMS 6503</td>
<td>Methods in Pharmacology</td>
<td>2-6 MD</td>
<td>MSG</td>
<td></td>
<td>This course is designed to familiarize students with selected research methods in pharmacology by participation in laboratory exercises designed and supervised by the faculty.</td>
</tr>
<tr>
<td>GMS 6512</td>
<td>Ion Channel Pharmacology and Disease</td>
<td>3 MD</td>
<td>MSG</td>
<td></td>
<td>This course is designed to familiarize students with the role of ion channels in the genesis of pathophysiological conditions and how these proteins may be targeted for therapeutic intervention.</td>
</tr>
<tr>
<td>GMS 6513</td>
<td>Principles of Pharmacology and Therapeutics</td>
<td>3 MD</td>
<td>MSG</td>
<td></td>
<td>This course is designed to familiarize students with basic principles of pharmacology and therapeutics. Students will be exposed to classical concepts of pharmacology such as drug-receptor interactions as well as modern techniques such as gene therapy.</td>
</tr>
<tr>
<td>GMS 6601</td>
<td>Methods of Electron Microscopy in Medical Research</td>
<td>3 MD</td>
<td>MSG</td>
<td>PR: GMS 6608 or CC.</td>
<td>This lecture and laboratory course deals with theoretical and technical issues regarding the use of the electron microscope in biomedical research.</td>
</tr>
<tr>
<td>GMS 6602</td>
<td>Neural Correlates of Behavior</td>
<td>3 MD</td>
<td>MSG</td>
<td>PR: CC.</td>
<td>This course focuses on the organization and function of nervous system structures that control and regulate various aspects of somatic and visceral motor behavior.</td>
</tr>
<tr>
<td>GMS 6604</td>
<td>Human Embryology</td>
<td>3 MD</td>
<td>MSG</td>
<td>PR: CC.</td>
<td>This course deals with the structural and functional development of the human from conception to birth.</td>
</tr>
<tr>
<td>GMS 6608</td>
<td>Advanced Microscopic Anatomy</td>
<td>3-6 MD</td>
<td>MSG</td>
<td>PR: CC.</td>
<td>This lecture and laboratory course examines the human organism at the microscopic level, focusing on cellular morphology and the histological organization of tissues and organ systems.</td>
</tr>
<tr>
<td>GMS 6609</td>
<td>Advanced Human Gross Anatomy</td>
<td>6-12 MD</td>
<td>MSG</td>
<td>PR: CC.</td>
<td>This lecture and laboratory course focuses on the anatomical relationships between various structures that comprise the human body.</td>
</tr>
<tr>
<td>GMS 6610</td>
<td>Advanced Neuroanatomy</td>
<td>3-6 MD</td>
<td>MSG</td>
<td>PR: Admission to Ph.D. Program in Medical Sciences and Anatomy Department.</td>
<td>This lecture and laboratory course deals with the structure and function of the human nervous system. The course is organized using both regional and systemic approaches.</td>
</tr>
<tr>
<td>GMS 6611</td>
<td>Introduction to Anatomical Research</td>
<td>1-3 MD</td>
<td>MSG</td>
<td>PR: Admission to Ph.D. Program in Medical Sciences and Anatomy Department.</td>
<td>This course consists of scheduled rotations through the laboratory of at least three members of the anatomy department faculty.</td>
</tr>
<tr>
<td>GMS 6612</td>
<td>Supervised Teaching in Human Anatomy</td>
<td>1-3 MD</td>
<td>MSG</td>
<td>PR: GSM 6608, 6609, or 6610 and acceptance into the Anatomy Dept.</td>
<td>This course deals with the philosophy and mechanics of teaching. The course also involves supervised, practical experience in the various aspects of teaching in both the class-room and laboratory.</td>
</tr>
<tr>
<td>GMS 6931</td>
<td>Directed Research in Cancer Biology</td>
<td>1-12 MD</td>
<td>MSG</td>
<td>PR: CI.</td>
<td>Student research will be performed under the guidance of Ph.D. prior to formation of dissertation committee.</td>
</tr>
<tr>
<td>GMS 6932</td>
<td>Selected Topics in Cancer Biology</td>
<td>1-4 MD</td>
<td>MSG</td>
<td>PR: Permission of department.</td>
<td>Provides in-depth study of a single aspect of cancer biology. Topics offered vary by semester.</td>
</tr>
<tr>
<td>Code</td>
<td>Title</td>
<td>Units</td>
<td>Type</td>
<td>Prerequisite(s)</td>
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<td>GMS 7910</td>
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<td>1-19</td>
<td>MD</td>
<td>MSG</td>
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<tr>
<td>GMS 7930</td>
<td>Selected Topics</td>
<td>1-3</td>
<td>MD</td>
<td>MSG</td>
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<tr>
<td>GMS 7939</td>
<td>Graduate Seminar</td>
<td>1</td>
<td>MD</td>
<td>MSG</td>
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<tr>
<td>GMS 7980</td>
<td>Dissertation: Doctoral</td>
<td>2-19</td>
<td>MD</td>
<td>MSG</td>
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<tr>
<td>HIS 6112</td>
<td>Analysis of Historical Knowledge</td>
<td>4</td>
<td>AS</td>
<td>HTY</td>
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<tr>
<td>HIS 6908</td>
<td>Independent Study</td>
<td>1-19</td>
<td>AS</td>
<td>HTY</td>
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<tr>
<td>HIS 6914</td>
<td>Directed Research</td>
<td>1-19</td>
<td>AS</td>
<td>HTY</td>
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<tr>
<td>HIS 6925</td>
<td>Colloquium in History</td>
<td>4</td>
<td>AS</td>
<td>HTY</td>
<td></td>
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<tr>
<td>HIS 6939</td>
<td>Seminar in History</td>
<td>4</td>
<td>AS</td>
<td>HTY</td>
<td></td>
</tr>
<tr>
<td>HIS 6971</td>
<td>Thesis: Master's</td>
<td>2-19</td>
<td>AS</td>
<td>HTY</td>
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<tr>
<td>HSA 6197</td>
<td>Advanced Information Management and Retrieval</td>
<td>3</td>
<td>PH</td>
<td>CFH</td>
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</tr>
<tr>
<td>HSC 6054</td>
<td>Design and Analysis of Experiments for Health Researchers</td>
<td>3</td>
<td>PH</td>
<td>EPB</td>
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<tr>
<td>HSC 6055</td>
<td>Survival Analysis</td>
<td>3</td>
<td>PH</td>
<td>EPB</td>
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<tr>
<td>Course Code</td>
<td>Course Title</td>
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<td>Required Prerequisites</td>
<td>Description</td>
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<tr>
<td>HSC 6056</td>
<td>Survey Sampling Methods in Health Sciences</td>
<td>3 PH</td>
<td>EPB PR: PHC 6050, PHC 6701 or CI.</td>
<td>An interdisciplinary overview of survey techniques with applications in health sciences. Discussions on questionnaire design, measurement error, data collection modes, data management, use of computer software and statistical analysis.</td>
<td></td>
</tr>
<tr>
<td>HSC 6442</td>
<td>Prevention and Control of Unintentional Injuries</td>
<td>3 PH</td>
<td>CFH PR: CL.</td>
<td>Prepares students to critically analyze the nature, magnitude and intervention strategies of unintentional injuries and propose new directions for prevention and control. Not restricted to public health majors.</td>
<td></td>
</tr>
<tr>
<td>HSC 6556</td>
<td>Pathobiology of Human Disease I</td>
<td>3 PH</td>
<td>EOH PR: CL.</td>
<td>A basic study of broad pathobiological areas of biological injury, genetic and inborn errors of metabolism, and host-parasite relationships. In addition, the pathobiology of human disease is closely related to general biology in order to provide a strong foundation for the public health student.</td>
<td></td>
</tr>
<tr>
<td>HSC 6557</td>
<td>Pathobiology of Human Disease II</td>
<td>3 PH</td>
<td>EOH PR: HSC 6556 and CI.</td>
<td>Overview of the distinct pathogenesis and etiology and selected acute and chronic diseases and their preventive aspects and impacts on the health care system. Provides basic knowledge of disease and illness patterns and their relationship to health planning.</td>
<td></td>
</tr>
<tr>
<td>HUM 6392</td>
<td>Teaching Practicum in Humanities</td>
<td>1-6 AS</td>
<td>HUM</td>
<td>Required of Teaching Assistants of Humanities courses. Workshops, meetings, and individual conferences treat topics related to teaching interdisciplinary courses focusing on the critical study of literature, music, and the arts. Credits do not count toward the Master of Liberal Arts degree.</td>
<td></td>
</tr>
<tr>
<td>HUM 6412</td>
<td>Studies in the Humanities of India</td>
<td>3 AS</td>
<td>HUM GS.</td>
<td>Examples from the arts and letters of India and the relationship of these arts to the Hindu and Buddhist philosophy-religions.</td>
<td></td>
</tr>
<tr>
<td>HUM 6414</td>
<td>Studies in the Humanities of China</td>
<td>3 AS</td>
<td>HUM GS.</td>
<td>Examples from the arts and letters of China; their relationship to Taoism, Confucianism, and other Chinese philosophies; Western influences on twentieth century Chinese arts and letters.</td>
<td></td>
</tr>
<tr>
<td>HUM 6453</td>
<td>Studies in American Arts and Letters I</td>
<td>3 AS</td>
<td>HUM GS.</td>
<td>Study of selected works dealing with the development of cultural patterns on the western frontiers and their effects on aesthetic judgment. From 1790 to 1890.</td>
<td></td>
</tr>
<tr>
<td>HUM 6465</td>
<td>Studies in Latin American Arts and Letters</td>
<td>3 AS</td>
<td>HUM GS.</td>
<td>Analysis of selected Latin American works of art in their cultural context.</td>
<td></td>
</tr>
<tr>
<td>HUM 6475</td>
<td>Studies in Contemporary Arts and Letters</td>
<td>3 AS</td>
<td>HUM GS.</td>
<td>Concentration on major artists and recent trends.</td>
<td></td>
</tr>
<tr>
<td>HUM 6493</td>
<td>Studies in Classical Arts and Letters</td>
<td>3 AS</td>
<td>HUM GS.</td>
<td>Examples from the arts and letters of ancient Greece and their relationships to Aegean myths, religions, and philosophies. Classical Greek influences on later cultures.</td>
<td></td>
</tr>
<tr>
<td>Code</td>
<td>Course Title</td>
<td>Credits</td>
<td>Department</td>
<td>Prerequisite(s)</td>
<td>Description</td>
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<tr>
<td>HUM 6496</td>
<td>Studies in Enlightenment Arts and Letters</td>
<td>3</td>
<td>HUM</td>
<td>GS.</td>
<td>Studies in painting, sculpture, music, literature, and architecture in relation to philosophical determinism and political absolutism.</td>
</tr>
<tr>
<td>HUM 6497</td>
<td>Studies in Nineteenth Century Arts and Letters</td>
<td>3</td>
<td>HUM</td>
<td>GS.</td>
<td>Examples from the arts and letters of the nineteenth century, their relationship to philosophical, social, and historical developments, and to the arts and letters of the twentieth century.</td>
</tr>
<tr>
<td>HUM 6801</td>
<td>Theories and Methods of Cultural Studies</td>
<td>3</td>
<td>HUM</td>
<td>PR. GS.</td>
<td>This course examines the relationship between the arts and society by introducing various approaches to the study of literature, art, and culture that are of contemporary relevance to graduate students in the liberal arts and humanities.</td>
</tr>
<tr>
<td>HUM 6815</td>
<td>Research in Humanities</td>
<td>3</td>
<td>HUM</td>
<td></td>
<td>A course emphasizing the practical aspects of research in the humanities including analyzing primary sources, assembling a bibliography, synthesizing secondary sources, and defining an argument. Topic varies.</td>
</tr>
<tr>
<td>HUM 6909</td>
<td>Independent Study</td>
<td>1-19</td>
<td>HUM</td>
<td>S/U.</td>
<td>Independent study in which student must have a contract with an instructor.</td>
</tr>
<tr>
<td>HUM 6915</td>
<td>Directed Research</td>
<td>1-19</td>
<td>HUM</td>
<td>PR. CI S/U.</td>
<td></td>
</tr>
<tr>
<td>HUM 6939</td>
<td>Selected Topics in Humanities</td>
<td>1-3</td>
<td>HUM</td>
<td>GS.</td>
<td>Each topic is a course of study in a subject not covered by a regular course.</td>
</tr>
<tr>
<td>HUM 6940</td>
<td>Internship in Humanities</td>
<td>1-3</td>
<td>HUM</td>
<td>PR. GS.</td>
<td>A structured, out-of-class learning experience providing first-hand, practical training in Humanities-related professional careers in the community.</td>
</tr>
<tr>
<td>HUM 6971</td>
<td>Thesis: Masters</td>
<td>2-19</td>
<td>HUM</td>
<td></td>
<td>In consultation with an advisor, the student plans, organizes, and writes a thesis on a topic in interdisciplinary arts and ideas.</td>
</tr>
<tr>
<td>INP 6935</td>
<td>Topics in Industrial-Organizational Psychology</td>
<td>3</td>
<td>PSY</td>
<td>PR. CI</td>
<td>Courses on topics such as industrial psychology, evaluation of performance in industry, and human factors.</td>
</tr>
<tr>
<td>INP 7097</td>
<td>Graduate Seminar in Industrial-Organizational Psychology</td>
<td>1-3</td>
<td>PSY</td>
<td>PR. CI</td>
<td>Seminars on topics, such as industrial psychology, evaluation of performance in industry, and human factors.</td>
</tr>
<tr>
<td>INR 6007</td>
<td>Seminar in International Relations</td>
<td>3</td>
<td>POL</td>
<td>Sr./GS.</td>
<td>Advanced study of international relations, including survey of basic literature, analysis of numerous theoretical and methodological approaches, and analysis of major issues.</td>
</tr>
<tr>
<td>INR 6036</td>
<td>Seminar in International Political Economy</td>
<td>3</td>
<td>POL</td>
<td>PR. POS 6736 or CI</td>
<td>Advanced study of the development and politics of the international economic system focusing on theoretical and empirical analysis of cooperation and conflict in trade, aid, and investment relationships.</td>
</tr>
<tr>
<td>Code</td>
<td>Course Title</td>
<td>Credits</td>
<td>Degree</td>
<td>Pre-Requisites</td>
<td>Description</td>
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<tr>
<td>INR</td>
<td>6107 American Foreign Policy</td>
<td>3</td>
<td>AS</td>
<td>POL GS.</td>
<td>Objectives, formulation, and execution of foreign policy; critical issues and problems confronting the United States. Study of various conceptual, methodological, and theoretical approaches.</td>
</tr>
<tr>
<td>ISC</td>
<td>7930 Selected Topics in Interdisciplinary Science</td>
<td>1-4</td>
<td>AS</td>
<td>IAS</td>
<td>Interdisciplinary studies will cell and molecular biology perspective.</td>
</tr>
<tr>
<td>ISM</td>
<td>6021 Management Information Systems</td>
<td>2</td>
<td>BA</td>
<td>QMB PR: ISM 6021 or equiv.; COBOL I or other approved language, CC.</td>
<td>An introduction to the fundamentals of information systems including an examination of information technology terminology and concepts, alternative methodologies for developing information systems, and the application and impact of information technology in contemporary organizations.</td>
</tr>
<tr>
<td>ISM</td>
<td>6123 Systems Analysis and Design</td>
<td>3</td>
<td>BA</td>
<td>QMB PR: ISM 6021 or equiv.; COBOL I or other approved language, CC.</td>
<td>This course includes the foundations and methodologies for analysis of existing systems; the design, development, and implementation of new systems.</td>
</tr>
<tr>
<td>ISM</td>
<td>6124 Advanced Systems Analysis and Design</td>
<td>3</td>
<td>BA</td>
<td>QMB PR: ISM 6021</td>
<td>This course covers advanced topics of information systems development. Students learn to manage and perform activities throughout the information systems development life cycle. State-of-the-art system development processes, methods, and tools are presented.</td>
</tr>
<tr>
<td>ISM</td>
<td>6125 Software Architecture</td>
<td>3</td>
<td>BA</td>
<td>QMB PR: ISM 6124</td>
<td>Software architecture has emerged as an explicit field of study for software engineering practitioners and researchers. In this course, we will investigate the growing literature on software architecture and understand the application of software concepts to the development of information systems.</td>
</tr>
<tr>
<td>ISM</td>
<td>6155 Enterprise Information Systems Management</td>
<td>3</td>
<td>BA</td>
<td>QMB PR: ISM 6124, ISM 6218.</td>
<td>Development of enterprise transaction processing applications using procedural or object oriented programming languages, relational database management, database sharing, CASE methodology and project management techniques. Students will work in groups on semester projects.</td>
</tr>
<tr>
<td>ISM</td>
<td>6217 Database Administration</td>
<td>3</td>
<td>BA</td>
<td>QMB PR: ISM 6123 or equiv., CC.</td>
<td>Advanced principles of Database Administration, Database Organization Models. Disaster Planning for Database Files.</td>
</tr>
<tr>
<td>ISM</td>
<td>6225 Distributed Information Systems</td>
<td>3</td>
<td>BA</td>
<td>QMB PR: ISM 6123, CC.</td>
<td>Analysis, design, implementation, and management of distributed information systems and networks.</td>
</tr>
<tr>
<td>ISM</td>
<td>6305 Managing the Information System Function</td>
<td>3</td>
<td>BA</td>
<td>QMB PR: ISM 6021 or equiv., CC.</td>
<td>An advanced study of information system management including system planning, project selection and management, and organizational information management policies.</td>
</tr>
<tr>
<td>ISM</td>
<td>6382 International Aspects of Information Science</td>
<td>3</td>
<td>BA</td>
<td>QMB PR: ISM 6021</td>
<td>Role of managers and information technology professionals in global business organizations and in deploying information systems to enable global operations.</td>
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<td>ISM 6405</td>
<td>Decision Support Systems Applications</td>
<td>3</td>
<td>BA</td>
<td>QMB</td>
<td>PR: FIN 6406, QMB 6305, QMB 6603</td>
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<td>ISM 6480</td>
<td>Electronic Commerce</td>
<td>3</td>
<td>BA</td>
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<td>PR: ISM 5217</td>
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<tr>
<td>ISM 6905</td>
<td>Independent Study</td>
<td>1-6</td>
<td>BA</td>
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<tr>
<td>ISM 6930</td>
<td>Selected Topics in MIS</td>
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<td>BA</td>
<td>QMB</td>
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<td>ISM 6971</td>
<td>Thesis: Master's</td>
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<td>ISM 7120</td>
<td>Information Requirements Management</td>
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<td>BA</td>
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<td>ISM 7140C</td>
<td>Systems Development Methodologies</td>
<td>3</td>
<td>BA</td>
<td>QMB</td>
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<td>ISM 7231</td>
<td>File Access Methods and Systems Software for Application Development</td>
<td>3</td>
<td>BA</td>
<td>QMB</td>
<td>PR: Departmental Approval.</td>
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<tr>
<td>ISM 7422</td>
<td>Business Applications or Artificial Intelligence and Expert Systems</td>
<td>3</td>
<td>BA</td>
<td>QMB</td>
<td>PR: Departmental Approval.</td>
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<td>ISM 7441C</td>
<td>Computer-Based Applications in Operations Management</td>
<td>3</td>
<td>BA</td>
<td>QMB</td>
<td>PR: Departmental Approval.</td>
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<td>ISM 7905</td>
<td>Independent Study</td>
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<td>BA</td>
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<tr>
<td>ISM 7910</td>
<td>MIS Research Seminar I</td>
<td>3</td>
<td>BA</td>
<td>QMB</td>
<td>PR: Departmental Approval.</td>
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</table>

- **ISM 6405 Decision Support Systems Applications**: Study of the principles of decision making and the human computer alliance with hands-on computer-assisted decision making for an organizational environment. Case studies and/or management games using micro-computers.

- **ISM 6480 Electronic Commerce**: This course provides a broad-based introduction to different facets of e-commerce, from both technical and managerial perspectives. Designing new e-commerce businesses as well as redesigning existing business to take advantage of e-commerce are examined. Specifically the course covers three areas: (1) e-commerce concepts, (2) e-commerce applications, and (3) e-commerce technologies.

- **ISM 6905 Independent Study**: Independent Study as directed by designated faculty.

- **ISM 6930 Selected Topics in MIS**: Selected topics in MIS.

- **ISM 6971 Thesis: Master's**: Students may select the thesis option in order to complete the Master of Science in the Management Information Systems (MS/MIS) program. Faculty permission is required to register for MS Thesis credit. Six credits are the maximum number of credits allowed for MS Thesis credit.

- **ISM 7120 Information Requirements Management**: Understanding the theoretical foundation for analyzing problem situations and determining information technology requirements; tools and skill requirements of the systems manager; and methods of managing computer-based information systems.

- **ISM 7140C Systems Development Methodologies**: Realistic in-depth application perspective of the tools and techniques of systems development.

- **ISM 7231 File Access Methods and Systems Software for Application Development**: An information system, viewed as a user application process interacting with data in a particular hardware/software environment, is analyzed to provide insights into various file access alternatives and advantages.

- **ISM 7422 Business Applications or Artificial Intelligence and Expert Systems**: Theory, concepts, methodologies, current trends, potential, interrelationships of artificial intelligence, expert systems, and decision process.

- **ISM 7441C Computer-Based Applications in Operations Management**: Introduction to applications of computer technology in manufacturing and operations management. Focus on the design and implementation of applications to support the operations manager.

- **ISM 7905 Independent Study**: Independent study in which student must have a contract with an instructor.

- **ISM 7910 MIS Research Seminar I**: Introduction to the MIS literature as it has developed over the past 30 years. Primary focus on the research literature. Other important writings will also be covered.
<table>
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<tr>
<th>Course Code</th>
<th>Course Title</th>
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<td>3 BA</td>
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<td>An examination of recently published empirical</td>
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<td>research in MIS and related disciplines, focusing</td>
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<td>on the development of a sound theoretical</td>
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<td>foundation for hypotheses, selection of</td>
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<td>appropriate design and statistical techniques,</td>
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<td></td>
<td>and evaluation of the results.</td>
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<td></td>
<td>research interests in behavioral and</td>
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<td>organizational fields. The seminar structure of</td>
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<td>the course allows flexibility of current</td>
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<td>research topics and opportunities for</td>
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<td>significant student faculty interaction.</td>
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<td>Students will achieve a broad understanding</td>
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<td>of the research areas and methods</td>
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<td>associated with behavioral and</td>
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<td>Selected Topics in MIS</td>
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<td></td>
<td>Overview of the ethical problems of</td>
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<td>development, as well as presents the ways in</td>
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<td>which the problems of development may be</td>
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<td>investigated. Students are taught qualitative</td>
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<td>methodological techniques and apply these</td>
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<td>techniques in fieldwork projects. Open to all</td>
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<td>ISM 7931</td>
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<td>PR: Ph.D. level, CC. S/U.</td>
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<td>A supervised program of intensive reading of</td>
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<td>Dissertation</td>
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<td>Development Ethics: Principles and Practice</td>
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<td>ISS</td>
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<td>ISS</td>
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<td>interest. Rpt. As topics vary.</td>
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<td>1-19 AS</td>
<td>ISS</td>
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<td>dependent on student demand and instructor's</td>
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<td>Selected topics in Italian literature.</td>
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<td>JOU 6107</td>
<td>News Coverage of Public Life</td>
<td>3 AS</td>
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<td>Problems and methods of reporting urban affairs,</td>
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<td>including municipal government, and politics:</td>
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<td>city, county, and state. Research/analyses of</td>
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<td>current issues.</td>
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<td>JOU 6122</td>
<td>Reporting: Methods and Perspectives</td>
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<td>Instruction and practice in computer-assisted</td>
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<td>reporting, social science research, interviewing,</td>
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<td>data-document research, observational techniques,</td>
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<td>and other methods of news gathering.</td>
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<td>JOU 6191</td>
<td>Seminar: Contemporary Issues in Journalism</td>
<td>3</td>
<td>AS COM PR: CC.</td>
<td>A study of the role of the free press in a democratic society and its efforts to fulfill its social and ethical responsibilities by analyses and discussions of the problems which face the reporter, the editor, and the publisher.</td>
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<tr>
<td>LAE 6301</td>
<td>Language Learning in Childhood</td>
<td>3</td>
<td>ED EDE</td>
<td>Research used to assess the language behavior of normal children and application of selected research methodology to understanding linguistic behavior of children.</td>
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<tr>
<td>LAE 6315</td>
<td>Writing and Writers: Trends &amp; Issues</td>
<td>3</td>
<td>ED EDE</td>
<td>The purpose of this course is to examine writing as a developing symbol system that is embedded in social and cultural contexts. Students will develop instructional strategies to facilitate children's writing development, as well as develop individual strategies for composing personal and professional texts.</td>
</tr>
<tr>
<td>LAE 6316</td>
<td>Trends in Literature in a Diverse Society</td>
<td>3</td>
<td>ED EDE</td>
<td>Focuses on the examination of historical and contemporary multicultural children's literature in order to help teachers and students gain a pluralistic perspective of society. Instructional programs are designed to lead school-age children to a broader understanding, respect, and appreciation of all persons representing various cultural, ethnic, and societal groups.</td>
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<tr>
<td>LAE 6325</td>
<td>Methods of Teaching Middle School Language Arts</td>
<td>4</td>
<td>ED EDI</td>
<td>Balanced literacy methods for integrating reading, writing, speaking, listening, viewing, and critical thinking activities into a literature based program for middle school students. Note: This course has a field component of 36 hours.</td>
</tr>
<tr>
<td>LAE 6339</td>
<td>Methods of Teaching Secondary English Language Arts</td>
<td>4</td>
<td>ED EDI</td>
<td>Balanced literacy methods for integrating reading, writing, speaking, listening, viewing, and critical thinking activities into a literature-based program for secondary school students. Note: This course has a field component of 36 hours.</td>
</tr>
<tr>
<td>LAE 6345</td>
<td>Teaching Written Composition</td>
<td>3</td>
<td>ED EDT</td>
<td>Techniques for motivating, guiding, correcting, and evaluating student writing.</td>
</tr>
<tr>
<td>LAE 6366</td>
<td>New Perspectives on the Teaching of Young Adult Literature in Middle &amp; Secondary Schools</td>
<td>3</td>
<td>ED EDT PR: Certification in English or Mass Communications</td>
<td>The primary purpose of this course is to improve the quality of language arts instruction at the middle and secondary levels. To achieve this basic purpose, we will focus chiefly on adolescents' perception of and responses to literature and the implications for organization and presentation of literature curricula.</td>
</tr>
<tr>
<td>LAE 6375</td>
<td>Contemporary Composition Studies</td>
<td>3</td>
<td>AS ENG</td>
<td>Examines the important research and theory in contemporary position pedagogy.</td>
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<tr>
<td>LAE 6389</td>
<td>Practice in Teaching Literature</td>
<td>1-3</td>
<td>AS ENG</td>
<td>A course that allows the prospective college English teacher to experiment with teaching techniques that will determine the most effective ways to teach literature and teach college English teachers the variety and importance of literary techniques and their relevance to various subject matters.</td>
</tr>
<tr>
<td>LAE 6392</td>
<td>Practice in Teaching Composition</td>
<td>3</td>
<td>AS ENG S/U.</td>
<td>In semester I required of and open only to Teaching Assistants new to USF's Freshman English program. Gives practical guidance in preparing to teach composition.</td>
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<td>Course Code</td>
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<tr>
<td>LAE 6415</td>
<td>Literature And The Learner</td>
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<tr>
<td>LAE 6616</td>
<td>Trends in Language Arts Instruction</td>
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<tr>
<td>LAE 6637</td>
<td>Current Trends in Secondary English Education</td>
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<tr>
<td>LAE 6644</td>
<td>Current Teaching of the English Language and the Study of Traditional Grammar</td>
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<td>LAE 6836</td>
<td>American and British Literature with Technology</td>
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<tr>
<td>LAE 6906</td>
<td>Independent Study in English Education</td>
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<tr>
<td>LAE 6947</td>
<td>Internship</td>
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<td>LAE 6971</td>
<td>Thesis: Masters/Educational Specialist</td>
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<td>LAE 7376</td>
<td>Problems in Advanced English Instruction of Composition</td>
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<td>LAE 7390</td>
<td>Problems in Advanced English Instruction and Scholarly Research</td>
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<td>LAE 7717</td>
<td>Theories And Patterns Of Advanced Language Arts Instruction</td>
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<td>LAE 7747</td>
<td>Literature Program Design</td>
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**LAE 6415 Literature And The Learner**
- 3 ED EDE
- Nature, scope, and uses of literature for instructional, information, and recreational purposes and implications of current theory, significant research, and issues in literature study as they relate to the learner.

**LAE 6616 Trends in Language Arts Instruction**
- 3 ED EDE
- PR: LAE 4314 or equivalent or DPR
- Significant concepts, emerging trends, research, and instructional techniques for implementation and utilization of language arts in all areas of the curriculum.

**LAE 6637 Current Trends in Secondary English Education**
- 3 ED EDT
- PR: LAE 4335 or LAE 4642 or Certification in English or Mass Communications.
- Curricular patterns and instructional practices in secondary English.

**LAE 6644 Current Teaching of the English Language and the Study of Traditional Grammar**
- 3 ED EDT
- PR: Certification in English or Mass Communications.
- Applications of recent techniques of language study to classroom teaching of English, especially in relation to the teaching of grammar. Presents an interactive approach to grammar instruction in which students learn the basic elements of English grammar and engaging classroom activities for teaching grammar in the schools. Fulfills the grammar course requirement for teacher certification in English.

**LAE 6836 American and British Literature with Technology**
- 3 ED EDI
- PR: EDG 6947.
- A study of five sections of literature: 1) British Literature before Shakespeare, 2) British Literature after Shakespeare to 1740, 3) British Literature 1740-1900, 4) American Literature before 1900, and 5) Twentieth Century British and American Literature (1890 to the Present) while developing an individual’s skill with technology.

**LAE 6906 Independent Study in English Education**
- 1-6 ED EDT
- This course permits a student to explore a topic of interest in depth under the direction and supervision of a faculty member.

**LAE 6947 Internship**
- 6 ED EDI CI.
- Provides students with an extended school-based experience, under the guidance of a cooperating teacher and university supervisor, for a full semester at or near the end of their graduate program. Open to graduate degree candidates only. S/U (PR: CI)

**LAE 6971 Thesis: Masters/Educational Specialist**
- 2-19 ED EDT S/U.

**LAE 7376 Problems in Advanced English Instruction of Composition**
- 3 AS ENG
- PR: Admission to the Ph.D. program in English.
- Apprenticed, closely supervised study of and practice in teaching of college and university advanced composition. Student may elect to work with nonfiction, fiction, or poetry.

**LAE 7390 Problems in Advanced English Instruction and Scholarly Research**
- 3 AS ENG
- PR: Ph.D. Candidacy.
- This course provides closely supervised training in upper-level college English instruction and experience with professional research. Experience in lecture, seminar discussion, examinations, evaluation, conferences, directing undergraduate research, course development, use of secondary materials, publication procedure, and collation.

**LAE 7717 Theories And Patterns Of Advanced Language Arts Instruction**
- 3 ED EDE
- PR: LAE 6616 or equiv.
- New research findings and theories relating to language patterns and contemporary programs for teaching language arts.

**LAE 7747 Literature Program Design**
- 3 ED EDE
- PR: EDF 6481, LAE 6415, or LAE 6336 or DPR.
- Investigation and analysis of the research in literature instruction and the application of the findings to the development of literature programs.
<table>
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<th>Course Code</th>
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<th>Prerequisites</th>
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<td>Directed Research in English Education</td>
<td>1-19</td>
<td>ED</td>
<td>EDT</td>
<td>PR: CI. This course permits a doctoral student to conduct advanced research and to pursue specific areas of interest with a faculty member as supervisor. A contract is required with the faculty member. S/U.</td>
</tr>
<tr>
<td>LAS 6936</td>
<td>Core Seminar in Latin American, Caribbean and Latino</td>
<td>3</td>
<td>AS</td>
<td>INT</td>
<td>Offerings will include current issues in any area of linguistic theory.</td>
</tr>
<tr>
<td>LIN 6018</td>
<td>Topics in Theoretical Linguistics</td>
<td>3</td>
<td>AS</td>
<td>WLE</td>
<td>An introduction to the aims and methodologies of linguistics as a graduate discipline: The field of linguistics, its subdisciplines, and its relationship to adjacent arts and sciences; bibliographical resources; methods of research and research writing; and a brief survey of the historical development of linguistics and current issues in the field.</td>
</tr>
<tr>
<td>LIN 6081</td>
<td>Introduction to Graduate Study in Linguistics</td>
<td>3</td>
<td>AS</td>
<td>WLE</td>
<td>Required of all M.A. candidates.</td>
</tr>
<tr>
<td>LIN 6117</td>
<td>History of Linguistic Thought</td>
<td>3</td>
<td>AS</td>
<td>WLE</td>
<td>Survey of the development of language study in the West from Antiquity to the present. Classical and medieval theories of language; origins of traditional grammar; rationalist linguistic theory and philosophical grammar, and an examination of the origin of contemporary linguistic controversies.</td>
</tr>
<tr>
<td>LIN 6129</td>
<td>Studies in English Language and Linguistics</td>
<td>3</td>
<td>AS</td>
<td>WLE</td>
<td>An advanced study of the origin, historical development and contemporary structure of British and American English in its social and cultural milieu, with emphasis upon modern techniques for linguistic analysis and description.</td>
</tr>
<tr>
<td>LIN 6322</td>
<td>Phonological Description</td>
<td>3</td>
<td>AS</td>
<td>WLE</td>
<td>PR: LIN 6520, or CI. Training in applied phonetic transcription of American English speech; analysis and description of major phonological processes and dialect features of American English, with practice in teaching pronunciation.</td>
</tr>
<tr>
<td>LIN 6351</td>
<td>The Sound System of English</td>
<td>3</td>
<td>AS</td>
<td>WLE</td>
<td>PR: LIN 5700 or EQ. Analysis of the phonological component of a grammar, its role and formal structures. The generative model is compared to taxonomic descriptions. Theory and data-solution problems.</td>
</tr>
<tr>
<td>LIN 6571</td>
<td>The Structure of a Specific Language</td>
<td>3</td>
<td>AS</td>
<td>WLE</td>
<td>Analysis of the linguistic structures of both common and uncommon languages.</td>
</tr>
<tr>
<td>LIN 6601</td>
<td>Sociolinguistics</td>
<td>3</td>
<td>AS</td>
<td>WLE</td>
<td>Detailed analysis of the phenomenon of language variation with emphasis upon the research methodology of sociolinguistics and the implications of its findings for current linguistic theory.</td>
</tr>
<tr>
<td>LIN 6675</td>
<td>The Grammatical Structure of American English</td>
<td>3</td>
<td>AS</td>
<td>WLE</td>
<td>PR: LIN 5700 or EQ. Analysis and description of major morphological and syntactic structures of American English, with emphasis upon applied linguistics.</td>
</tr>
<tr>
<td>LIN 6715</td>
<td>Language Acquisition</td>
<td>3</td>
<td>AS</td>
<td>WLE</td>
<td>PR: LIN 3010, LIN 4377 or CI. A survey of current research and theory in the processes of normal language acquisition and development.</td>
</tr>
<tr>
<td>Course Code</td>
<td>Course Title</td>
<td>Credits</td>
<td>Units</td>
<td>Prerequisites</td>
<td>Description</td>
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<tr>
<td>LIN 6720</td>
<td>Second Language Acquisition</td>
<td>3</td>
<td>AS</td>
<td>WLE PR: LIN 6715 or EQ.</td>
<td>Neurolinguistic, psycholinguistic, and sociolinguistic bases of second language acquisition by both children and adults.</td>
</tr>
<tr>
<td>LIN 6722</td>
<td>Writing Processes in Second Languages Acquisition</td>
<td>3</td>
<td>AS</td>
<td>WLE PR: LIN 6081, TSL 5371, TSL 5371.</td>
<td>A survey of current theory and research in second language writing development and instruction, with emphasis upon second language writing in academic settings. May be taken as an elective by students in the Ph.D. program in Second Language Acquisition and Instructional Technology or the M.A. program in Applied Linguistics.</td>
</tr>
<tr>
<td>LIN 6748</td>
<td>Contrastive Analysis</td>
<td>3</td>
<td>AS</td>
<td>WLE</td>
<td>Comparison and contrast of the structures of American English with corresponding structures in selected foreign languages. EA and IA added for contrast with CA.</td>
</tr>
<tr>
<td>LIN 6908</td>
<td>Independent Study</td>
<td>1-19</td>
<td>AS</td>
<td>WLE PR: CC. S/U.</td>
<td>Independent study in which the student must have a contract with an instructor.</td>
</tr>
<tr>
<td>LIN 6910</td>
<td>Directed Research</td>
<td>1-10</td>
<td>AS</td>
<td>WLE PR: GR, ML, CC, S/U.</td>
<td>Content will depend upon instructor's interests and students' needs. Such topics and neurolinguistics, bilingualism, and discourse analysis may be taught.</td>
</tr>
<tr>
<td>LIN 6932</td>
<td>Selected Topics</td>
<td>1-4</td>
<td>AS</td>
<td>WLE PR: CC.</td>
<td>Special course to be used primarily for the training of teaching assistants.</td>
</tr>
<tr>
<td>LIN 6940</td>
<td>Graduate Instruction Methods</td>
<td>1-4</td>
<td>AS</td>
<td>WLE S/U only.</td>
<td>Development of libraries as found from the earliest records to the great libraries of modern times, and the library as a social institution.</td>
</tr>
<tr>
<td>LIS 6110</td>
<td>History of Libraries</td>
<td>3</td>
<td>AS</td>
<td>LIS</td>
<td>Traditional and innovative services for adults in public and other types of libraries, including those for special groups, such as the aging, handicapped, and institutionalized.</td>
</tr>
<tr>
<td>LIS 6111</td>
<td>History of Children's Literature</td>
<td>3</td>
<td>AS</td>
<td>LIS</td>
<td>Working with factors and forces influencing reading habits of children and youth; programs for teaching investigative and library skills materials and methods for guidance of reading, listening, and viewing.</td>
</tr>
<tr>
<td>LIS 6206</td>
<td>Adult Services in Libraries</td>
<td>3</td>
<td>AS</td>
<td>LIS PR: LIS 6511 or CI.</td>
<td>Building storytelling programs for school and public libraries or other educational institutions. Analysis of historical aspects, materials suitable for use and audience reaction.</td>
</tr>
<tr>
<td>LIS 6212</td>
<td>Reading Guidance Programs in Libraries and Classrooms</td>
<td>3</td>
<td>AS</td>
<td>LIS</td>
<td></td>
</tr>
<tr>
<td>LIS 6225</td>
<td>Storytelling</td>
<td>3</td>
<td>AS</td>
<td>LIS PR: LIS 6585 or CI.</td>
<td></td>
</tr>
<tr>
<td>Course Code</td>
<td>Course Title</td>
<td>Credits</td>
<td>Division</td>
<td>Prerequisites</td>
<td>Description</td>
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<tr>
<td>LIS 6260</td>
<td>Information Science in Librarianship</td>
<td>3</td>
<td>LIS</td>
<td></td>
<td>Historical overview of the emergence of information science as a discipline. The fundamental concepts of information retrieval systems and subsystems, related information technologies, including indexing and abstracting, and their applications to the field of librarianship.</td>
</tr>
<tr>
<td>LIS 6271</td>
<td>Research Methods in Library and Information Science</td>
<td>3</td>
<td>LIS</td>
<td>PR: LIS 5404, LIS 6603, and LIS 6189 or LIS 6735.</td>
<td>Overview of present status of research in library and information science; introduction to research methods and their application to librarianship; designed to prepare students to evaluate and plan research studies relating to library and information science.</td>
</tr>
<tr>
<td>LIS 6303</td>
<td>Preparing Instructional Media</td>
<td>3</td>
<td>LIS</td>
<td></td>
<td>Fundamentals of preparing and using audiovisuals as they relate to the communication process.</td>
</tr>
<tr>
<td>LIS 6402</td>
<td>Advanced Library Administration</td>
<td>3</td>
<td>LIS</td>
<td></td>
<td>Applications of staff management principles to library situations. Includes staff roles in current and future operations, application of library performance measures to determine staff effectiveness; preparation of staff manuals; problems of special classes of library workers, such as volunteers and students.</td>
</tr>
<tr>
<td>LIS 6409</td>
<td>Introduction to Library Administration</td>
<td>3</td>
<td>LIS</td>
<td></td>
<td>Behavioral approach to libraries as organizations; administrative principles, theories, and problems of all types of libraries; methods of administration; use of case studies, role plays, and in-basket exercises.</td>
</tr>
<tr>
<td>LIS 6432</td>
<td>Seminar in Academic Libraries</td>
<td>3</td>
<td>LIS</td>
<td>PR: LIS 6409 or CC.</td>
<td>Identification of problems and critical examination of methods in administrative areas of technical, student and teaching staff services, fiscal and legal responsibilities, staff organization and supervision in academic libraries.</td>
</tr>
<tr>
<td>LIS 6445</td>
<td>Seminar in Public Libraries</td>
<td>3</td>
<td>LIS</td>
<td>PR: LIS 6409 or CC.</td>
<td>Critical examination of public and institutional library administration, services, resources, and facilities at the municipal, county, and regional levels. Role of state and federal governments in library development.</td>
</tr>
<tr>
<td>LIS 6455</td>
<td>Organization and Administration of the School Media Center</td>
<td>3</td>
<td>LIS</td>
<td>PR: LIS 6409 or CC.</td>
<td>Media quarters, facilities, collections, equipment, and services. Principles of organization and administration of media programs in elementary and secondary schools. Field trips to area media centers required.</td>
</tr>
<tr>
<td>LIS 6463</td>
<td>Library Networks and Systems</td>
<td>3</td>
<td>LIS</td>
<td></td>
<td>Development of library networks at the local, state, regional, and national levels with consideration of organization, administration, services, funding, and legislation.</td>
</tr>
<tr>
<td>LIS 6464</td>
<td>Library Systems Analysis and Planning</td>
<td>3</td>
<td>LIS</td>
<td></td>
<td>Application of systems planning and data processing technology to library files. Emphasis on analysis of selected library subsystems.</td>
</tr>
<tr>
<td>LIS 6472</td>
<td>Seminar in Special Libraries</td>
<td>3</td>
<td>LIS</td>
<td>PR: LIS 6409 or CC.</td>
<td>Identification of problems and critical examination of methods in administrative areas of technical and special service clientele; fiscal and legal responsibilities, staff organization, and services in special libraries.</td>
</tr>
<tr>
<td>LIS 6473</td>
<td>Law Librarianship</td>
<td>3</td>
<td>LIS</td>
<td>PR: LIS 6260, LIS 6409, LIS 6603, LIS 6735, or CC.</td>
<td>All aspects of law librarianship, including administration, acquisition, organization, and use of information resources for persons in the health fields. Field trip may be required.</td>
</tr>
<tr>
<td>LIS 6475</td>
<td>Health Sciences Librarianship</td>
<td>3</td>
<td>LIS</td>
<td>PR: LIS 6260, LIS 6409, LIS 6603, LIS 6735 or CC. Field trip may be required.</td>
<td>All aspects of health science librarianship, including administration, acquisition, organization, and use of information resources for persons in the health fields such as physicians, medical students, nursing students, allied health personnel and students, and researchers.</td>
</tr>
<tr>
<td>Course Code</td>
<td>Course Title</td>
<td>Credits</td>
<td>Department</td>
<td>Prerequisites</td>
<td>Description</td>
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<tr>
<td>LIS 6511</td>
<td>Collection Development and Maintenance</td>
<td>3</td>
<td>AS LIS</td>
<td>CP: LIS 6271.</td>
<td>Developmental approach to building library collections of both print and non-print materials. Emphasis upon evaluation, selection, and acquisition of library materials as they uphold the objectives of the institutions for which they are selected and acquired.</td>
</tr>
<tr>
<td>LIS 6542</td>
<td>The Curriculum and Instructional Technology</td>
<td>3</td>
<td>AS LIS</td>
<td></td>
<td>Effective utilization of instructional materials as they relate to specific areas of curriculum in elementary and high school programs.</td>
</tr>
<tr>
<td>LIS 6565</td>
<td>Books and Related Materials for Young Adults</td>
<td>3</td>
<td>AS LIS</td>
<td></td>
<td>Young adult materials for use in secondary school libraries, young adult sections of public libraries, and other institutions serving youth. Equal emphasis upon (1) selection principles and bibliographical sources, as well as upon (2) utilization in terms of service to the young adult.</td>
</tr>
<tr>
<td>LIS 6585</td>
<td>Materials for Children</td>
<td>3</td>
<td>AS LIS</td>
<td></td>
<td>Examination of materials for all institutions in which children are served: school media centers, public libraries, kindergartens, etc. Stress on selection aids, reviewing techniques, utilizations.</td>
</tr>
<tr>
<td>LIS 6603</td>
<td>Basic Information Sources and Services</td>
<td>3</td>
<td>AS LIS</td>
<td></td>
<td>An examination of the basic sources of information in the general library; of bibliographical control of all communication media, with emphasis on those tools of most value to general reference services.</td>
</tr>
<tr>
<td>LIS 6609</td>
<td>Online Information Sources and Services</td>
<td>3</td>
<td>AS LIS</td>
<td>PR: LIS 6260, LIS 6603, or CC.</td>
<td>Principles of online searching and characteristics of machine-readable bibliographic data bases. Includes two credit hours of laboratory providing hands-on research experience.</td>
</tr>
<tr>
<td>LIS 6610</td>
<td>Information Sources and Services in the Humanities</td>
<td>3</td>
<td>AS LIS</td>
<td>PR: LIS 6603 or CC.</td>
<td>Consideration of the bibliographical and reference materials in the humanities with training and practice in their use for solving problems in the reference service.</td>
</tr>
<tr>
<td>LIS 6620</td>
<td>Information Sources and Services in the Social Sciences</td>
<td>3</td>
<td>AS LIS</td>
<td>PR: LIS 6603 or CC.</td>
<td>Consideration of the bibliographical and reference materials in the social sciences with training and practice in their use for solving problems in the reference service.</td>
</tr>
<tr>
<td>LIS 6624</td>
<td>Information Sources and Services in Business and Law</td>
<td>3</td>
<td>AS LIS</td>
<td>PR: LIS 6603 or CI.</td>
<td>Consideration of representative reference sources in business and law with training and practice in their use for solving information problems in academic, public, and special libraries.</td>
</tr>
<tr>
<td>LIS 6630</td>
<td>Information Sources and Services in Science and Technology</td>
<td>3</td>
<td>AS LIS</td>
<td>PR: LIS 6603 or CC.</td>
<td>Study of representative reference sources in pure and applied sciences with equal attention given to typical problems encountered in scientific and technological reference service.</td>
</tr>
<tr>
<td>LIS 6661</td>
<td>Government Documents</td>
<td>3</td>
<td>AS LIS</td>
<td></td>
<td>The nature of state, federal, United Nations, and international documents, their reference and research value; the techniques of acquisition, organization, and reference use.</td>
</tr>
<tr>
<td>LIS 6724</td>
<td>Classification and Cataloging of Non-Book Materials</td>
<td>3</td>
<td>AS LIS</td>
<td>PR: LIS 6735 or CC.</td>
<td>Principles and practices in cataloging and organizing non-book materials.</td>
</tr>
<tr>
<td>LIS 6725</td>
<td>Organization of Knowledge I</td>
<td>3</td>
<td>AS LIS</td>
<td></td>
<td>Principles of the organization of knowledge emphasizing descriptive cataloging, including the MARC format, the use of LSCSH and the Library of Congress classification, and searching the OCLC Online Union Catalog.</td>
</tr>
</tbody>
</table>

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<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Hours</th>
<th>Credits</th>
<th>Department</th>
<th>Notes</th>
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<tbody>
<tr>
<td>LIS 6726C</td>
<td>Indexing and Abstracting</td>
<td>3</td>
<td>AS</td>
<td>LIS</td>
<td>PR: LIS 6725 or LIS 6735 Principles and procedures for indexing and abstracting products of human knowledge in various formats, including vocabulary control, thesaurus construction, classification, and coding in manual, automated, and intelligent systems.</td>
</tr>
<tr>
<td>LIS 6735</td>
<td>Technical Services in Small Libraries</td>
<td>3</td>
<td>AS</td>
<td>LIS</td>
<td>Covers aspects of technical services including acquisitions, cataloging, and circulation systems as they relate to school media centers, small public libraries, and information centers. Automation is emphasized in all aspects of the course.</td>
</tr>
<tr>
<td>LIS 6745</td>
<td>Organization of Knowledge II</td>
<td>3</td>
<td>AS</td>
<td>LIS</td>
<td>PR: LIS 6725. Introduction to the practice in using selected schedules of Library of Congress Classification System and the Library of Congress Subject Heading List; changing policies and procedures in cataloging and an introduction to the use of the MARC format for inputting cataloging data into machine readable files.</td>
</tr>
<tr>
<td>LIS 6906</td>
<td>Independent Study</td>
<td>1-4</td>
<td>AS</td>
<td>LIS</td>
<td>PR: 20 hours in program and consent of advisor. S/U. Supervised experience in an approved cooperating library. Includes practice work, seminar sessions and individual conferences, a progress report, and a final report on the field experience.</td>
</tr>
<tr>
<td>LIS 6946</td>
<td>Supervised Field Work</td>
<td>3</td>
<td>AS</td>
<td>LIS</td>
<td>PR: CC. Supervised experience in an approved cooperating library. Includes practice work, seminar sessions and individual conferences, a progress report, and a final report on the field experience.</td>
</tr>
<tr>
<td>LIT 6096</td>
<td>Studies in Contemporary Literature</td>
<td>3</td>
<td>AS</td>
<td>ENG</td>
<td>Drama, poetry, fiction, and literary criticism; authors to be studied include Ionesco, Thomas, Miller, T. Williams, Beckett, Camus, Burgess, Morrison, and Walker.</td>
</tr>
<tr>
<td>LIT 6105</td>
<td>Studies in Continental Literature</td>
<td>3</td>
<td>AS</td>
<td>ENG</td>
<td>General areas include the Renaissance, the Enlightenment, the Novel in Europe, the Romantic Movement on the Continent, and Classical Comedy.</td>
</tr>
<tr>
<td>LIT 6934</td>
<td>Selected Topics in English Studies</td>
<td>3</td>
<td>AS</td>
<td>ENG</td>
<td>Current topics offered on a rotating basis include The Nature of Tragedy; The Nature of Comedy and Satire; and the Nature of Myth, Allegory, and Symbolism; the Epic; Utopian Literature. Other topics will be added in accordance with student demand and instructor interest.</td>
</tr>
<tr>
<td>LNW 6505</td>
<td>Roman Philosophy</td>
<td>3</td>
<td>AS</td>
<td>WLE</td>
<td>Readings in the philosophic writings of Cicero, Seneca, and Lucretius, together with an examination of Stoic, Epicurean, and Eclectic thought.</td>
</tr>
<tr>
<td>LNW 6655</td>
<td>Horace</td>
<td>3</td>
<td>AS</td>
<td>WLE</td>
<td>Readings in the Odes and Epodes of Horace; study of the Ode's tradition.</td>
</tr>
<tr>
<td>LNW 6665</td>
<td>Vergil</td>
<td>3</td>
<td>AS</td>
<td>WLE</td>
<td>Readings in the Aeneid, the Eclogues, and the Georgics.</td>
</tr>
<tr>
<td>LNW 6910</td>
<td>Supervised Research</td>
<td>3</td>
<td>AS</td>
<td>WLE</td>
<td>PR: CC. Supervised experience in an approved cooperating library. Includes practice work, seminar sessions and individual conferences, a progress report, and a final report on the field experience.</td>
</tr>
<tr>
<td>LNW 6940</td>
<td>Supervised Teaching</td>
<td>3</td>
<td>AS</td>
<td>WLE</td>
<td>Supervised experience in an approved cooperating library. Includes practice work, seminar sessions and individual conferences, a progress report, and a final report on the field experience.</td>
</tr>
<tr>
<td>Course Code</td>
<td>Course Title</td>
<td>Credits</td>
<td>Type</td>
<td>Pre-Requisites</td>
<td>Description</td>
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<tr>
<td>MAA 6406</td>
<td>Complex Analysis I</td>
<td>3</td>
<td>AS</td>
<td>MTH</td>
<td>Linear transformations, analytic functions, conformal mapping, Cauchy's theorem and applications, power series, partial fractions and factorization, elementary Riemann surfaces, Riemann mapping theorem.</td>
</tr>
<tr>
<td>MAA 6407</td>
<td>Complex Analysis II</td>
<td>3</td>
<td>AS</td>
<td>MTH</td>
<td>Topics in: conformal mappings, normal families, Picard's theorem, univalent functions, extremal properties, elliptic functions, approximation theory, Riemann surfaces.</td>
</tr>
<tr>
<td>MAA 6506</td>
<td>Functional Analysis I</td>
<td>3</td>
<td>AS</td>
<td>MTH</td>
<td>Normed linear spaces and topological vector spaces; open mapping, closed graph, and Hahn-Banach Theorem, UB principle, compact operators, dual spaces.</td>
</tr>
<tr>
<td>MAA 6507</td>
<td>Functional Analysis II</td>
<td>3</td>
<td>AS</td>
<td>MTH</td>
<td>Hilbert spaces, spectral theory, and other topics.</td>
</tr>
<tr>
<td>MAA 6616</td>
<td>Abstract Integration</td>
<td>3</td>
<td>AS</td>
<td>MTH</td>
<td>Measure as abstract integration; Riesz representation theorem, Fubini's Theorem, Radon-Nikodym Theorem, LP spaces.</td>
</tr>
<tr>
<td>MAD 6206</td>
<td>Combinatorics I</td>
<td>3</td>
<td>AS</td>
<td>MTH</td>
<td>Elementary counting principles, distributions, sets, multisets, partitions of sets and integers, generating functions and recurrences, graphical methods, probabilistic methods.</td>
</tr>
<tr>
<td>MAD 6207</td>
<td>Combinatorics II</td>
<td>3</td>
<td>AS</td>
<td>MTH</td>
<td>Combinatorics of finite sets: posets, hypergraphs and external problems, matroids, block designs, Mobius inversion for partially ordered sets, Polya's enumeration theory.</td>
</tr>
<tr>
<td>MAD 6510</td>
<td>Analysis of Algorithms</td>
<td>4</td>
<td>AS</td>
<td>MTH</td>
<td>Mathematical theory of algorithms for information processing, including time and space requirements of algorithms, construction of optimal algorithms.</td>
</tr>
<tr>
<td>MAD 6616</td>
<td>Algebraic Automata Theory</td>
<td>3</td>
<td>AS</td>
<td>MTH</td>
<td>Deterministic and non-deterministic finite automata, Mealy and Moore machines, push-down automata, Turing machines, regular languages, context free languages, halting problem, and universal Turing machines.</td>
</tr>
<tr>
<td>MAD 6617</td>
<td>Algebraic Coding Theory</td>
<td>3</td>
<td>AS</td>
<td>MTH</td>
<td>Linear block codes over an arbitrary finite field: Hamming, Golay, BCH, quadratic residue, Reed-Muller, and MDS codes, the MacWilliams identity, bounds on minimum distance, and relationship to design theory.</td>
</tr>
<tr>
<td>MAE 6115</td>
<td>Current Trends in Elementary Mathematics Education</td>
<td>3</td>
<td>ED</td>
<td>EDE</td>
<td>Philosophy, content, and process of mathematics instruction in elementary school programs.</td>
</tr>
<tr>
<td>MAE 6337</td>
<td>Topics in Teaching Algebra</td>
<td>1-4</td>
<td>ED</td>
<td>EDO</td>
<td>Topics in algebra, philosophy, new trends, and methods of teaching secondary school algebra.</td>
</tr>
<tr>
<td>MAE 6338</td>
<td>Topics in Teaching Geometry</td>
<td>1-4 ED</td>
<td>EDO</td>
<td>PR: Undergraduate degree in mathematics or certification in secondary school mathematics</td>
<td>Topics in geometry, philosophy, new trends, and methods of teaching secondary school geometry.</td>
</tr>
<tr>
<td>MAE 6356</td>
<td>Teaching of Pre-Secondary School Mathematics</td>
<td>3 ED</td>
<td>EDO</td>
<td>PR: 12 hours of mathematics. DPR.</td>
<td>Development of strategies and materials for teaching mathematical concepts and skills appropriate to pre-secondary school years.</td>
</tr>
<tr>
<td>MAE 6549</td>
<td>Advanced Practicum in Diagnosis and Treatment of Learning Disabilities in School Mathematics</td>
<td>1-6 ED</td>
<td>EDO</td>
<td>PR: MAE 6516</td>
<td>Supervised conduct of a case study with a student experiencing learning difficulties in mathematics. Procedures and reporting practices developed in MAE 6516 reviewed and extended.</td>
</tr>
<tr>
<td>MAE 6906</td>
<td>Independent Study in Mathematics Education</td>
<td>1-6 ED</td>
<td>EDO</td>
<td></td>
<td>This course permits a student to explore a topic of interest in depth under the direction and supervision of a faculty member.</td>
</tr>
<tr>
<td>MAE 6947</td>
<td>Internship</td>
<td>6 ED</td>
<td>EDI</td>
<td>PR: CL</td>
<td>Provides students with an extended school-based experience, under the guidance of a cooperating teacher and university supervisor, for a full semester at or near the end of their graduate program. Open to graduate degree candidates only. S/U (PR: CL)</td>
</tr>
<tr>
<td>MAE 6971</td>
<td>Thesis: Masters/Educational Specialist</td>
<td>2-19 ED</td>
<td>EDO</td>
<td></td>
<td>This course permits a doctoral student to conduct advanced research and to pursue specific areas of interest with a faculty member as supervisor. A contract is required with the faculty member. S/U.</td>
</tr>
<tr>
<td>MAE 7910</td>
<td>Directed Research in Mathematics Education</td>
<td>1-19 ED</td>
<td>EDO</td>
<td>PR: CL</td>
<td></td>
</tr>
<tr>
<td>MAE 7980</td>
<td>Dissertation</td>
<td>2-30 ED</td>
<td>EDO</td>
<td>PR: Admission to Candidacy.</td>
<td></td>
</tr>
<tr>
<td>MAN 6053</td>
<td>Politics and Control in Organizations</td>
<td>3 BA</td>
<td>MAN</td>
<td>PR: GS.</td>
<td>Course explores politics and control at the individual, small group, and organizational levels. Students will also explore the power relationships between organizations and the larger political/economic systems of which they are a part and with which they interact.</td>
</tr>
<tr>
<td>MAN 6055</td>
<td>Human Behavior and Organization</td>
<td>3 BA</td>
<td>MBA</td>
<td>PR: GS.</td>
<td>An examination of the theory and practice of management, including the study of goals and means, the functions of management, and the administrative process in general.</td>
</tr>
<tr>
<td>MAN 6107</td>
<td>Leadership Perspective</td>
<td>3 BA</td>
<td>MAN</td>
<td></td>
<td>Examines the perspective required of the manager/leader/facilitator in light of personal, organizational, and societal needs judged by standards of effectiveness and ethicalness.</td>
</tr>
<tr>
<td>MAN 6116</td>
<td>Managing Diversity</td>
<td>3 BA</td>
<td>MAN</td>
<td></td>
<td>Course deals with questions, dimensions of style and structure, problems and paradigms of solutions that have come out of management experience of a changing workforce during the past twenty years. Emerging styles of leadership among people of diverse cultural backgrounds will be explored as solutions, not as problems.</td>
</tr>
<tr>
<td>MAN 6122</td>
<td>Leadership and Teams</td>
<td>3 BA</td>
<td>MAN</td>
<td></td>
<td>Exploration, analysis and application of leadership theory, research concepts and skills in teams and organizations. Course provides insights into opportunities and challenges faced by leaders as they seek to adapt themselves and their organizations to the global business environment.</td>
</tr>
<tr>
<td>MAN 6140 Decision Making &amp; Problem Solving</td>
<td>2 BA MAN</td>
<td>Exploration, analysis and applications of Leadership theory, research concepts and skills in teams and organizations. Course provides insights into opportunities and challenges faced by leaders as they seek to adapt themselves and their organizations to the global business environment.</td>
<td></td>
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</tr>
<tr>
<td>MAN 6149 Leadership and Teams</td>
<td>3 BA MAN</td>
<td>Systematic study of architecture, design and management approaches that influence the effectiveness of public and private organizations, including theory, environment, technology, culture, behavior control and work design.</td>
<td></td>
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</tr>
<tr>
<td>MAN 6204 Organization Design and Structure</td>
<td>3 BA MAN</td>
<td>Course explores politics and control at the individual, small group, and organizational levels. Students will also explore the power relationships between organizations and the larger political/economic systems of which they are a part and with which they interact.</td>
<td></td>
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</tr>
<tr>
<td>MAN 6256 Politics and Control in Organizations</td>
<td>3 BA MAN</td>
<td>A combination laboratory-field course requiring the integration of behavioral science theories, tools, concepts, and techniques learned in the lab to an OB application in a &quot;real&quot; organization.</td>
<td></td>
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</tr>
<tr>
<td>MAN 6289 Organizational Change and Development</td>
<td>3 BA MAN</td>
<td>Course focuses on the complex decision-making processes involved in the management of human resources within an organizational system geared to meeting both individual needs and organizational objectives.</td>
<td></td>
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</tr>
<tr>
<td>MAN 6305 Human Resource Management</td>
<td>3 BA MAN</td>
<td>Provide the student with an overview of conflict resolution within/between organizations. Includes negotiation, mediation, arbitration, peer review, and other alternatives to litigation; internal dispute resolution, dispute system design/implementation.</td>
<td></td>
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</tr>
<tr>
<td>MAN 6448 Negotiating Agreement and Resolving Conflict</td>
<td>3 BA MAN</td>
<td>This course provides the student with an understanding of the fundamentals of quality management. Students will develop an appreciation for the complexities of modern organizations in the pursuit of quality. A cross-function multidisciplinary approach is used.</td>
<td></td>
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</tr>
<tr>
<td>MAN 6525 Quality Management</td>
<td>3 BA MAN</td>
<td>This course explores the new paradigm shift occurring in business. Focusing on quality enhancement initiatives, the course explores the execution of quality management programs and their associated complexities.</td>
<td></td>
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</tr>
<tr>
<td>MAN 6527 Advanced Seminar in Quality Management</td>
<td>3 BA MAN</td>
<td>The integration of quantitative approaches and management science tools into the decision making process at various organizational levels and in various organizational settings involved in the production and dissemination of goods and services.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>MAN 6569 Quantitative Applications for Management Decisions</td>
<td>3 BA QMB</td>
<td>A study of the characteristics of the international and multinational company, environmental constraints, personnel and labor relations factors, and strategic planning and policies.</td>
<td></td>
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</tr>
<tr>
<td>MAN 6601 International Management</td>
<td>3 BA MAN</td>
<td>Examines the effects of culture and nationality on business practices in selected regions and countries and suggests ways to build synergistic solutions from multicultural differences.</td>
<td></td>
<td></td>
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</tr>
<tr>
<td>MAN 6607 Managing International Cultural Differences</td>
<td>3 BA MAN</td>
<td>Examines techniques to creatively vision and analyze the future to prepare individuals and organizations for future opportunities and threats. Designed to familiarize students with techniques for analyzing the future, critical issues, how the future will impact them as individuals.</td>
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</tr>
<tr>
<td>MAN 6726 Strategic Planning</td>
<td>3 BA MAN</td>
<td>PR: Graduate Standing</td>
<td></td>
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</tr>
</tbody>
</table>
### MAN 6806 Entrepreneurship and Small Business Management Counseling
- **Credits:** 1-3
- **Department:** MAN

Small business management consulting to an ongoing firm or development of a business plan for a new enterprise. Emphasis on developing consulting skills and recognizing implications of entrepreneurs capabilities and attitudes for success.

### MAN 6905 Independent Study
- **Credits:** 1-19
- **Department:** MAN
- **Prerequisites:** CC. S/U.

Independent study in which student must have a contract with an instructor.

### MAN 6911 Directed Research
- **Credits:** 1-19
- **Department:** MAN
- **Prerequisites:** GR, ML, CC.

Designed to be taken either under general guidance of faculty member on some facet of management not offered in a regular course or with regularly scheduled graduate courses for more in-depth study.

### MAN 6930 Selected Topics
- **Credits:** 1-4
- **Department:** MAN
- **Prerequisites:** CC.

Designed to be taken either under general guidance of faculty member on some facet of management not offered in a regular course or with regularly scheduled graduate courses for more in-depth study.

### MAN 6971 Thesis: Master's
- **Credits:** 1-19
- **Department:** MAN

### MAN 7205 Organization Theory
- **Credits:** 3
- **Department:** MAN
- **Prerequisites:** MAN 7225 or CI.

Interdisciplinary overview of theory and research on macro organizational variables affecting organizational design and effectiveness. Focus on relationships between organizational structure and dynamics of human behavior.

### MAN 7225 Research Elective in Management
- **Credits:** 3
- **Department:** MAN
- **Prerequisites:** MAN 6055, Research Methods I and II or equiv.

Parametric & nonparametric statistics required. Research: Methods for organization analysis and management, design, sample selection, data collection, interpretation and presentation of results.

### MAN 7245 Organizational Behavior
- **Credits:** 3
- **Department:** MAN
- **Prerequisites:** MAN 7205 or CI.

Behavioral concepts and practices in organizations. Emphasis on individual groups, intragroup and intergroup development and actions; organization; socialization; motivation; values; performance; communication effectiveness.

### MAN 7285 Organizational Development
- **Credits:** 3
- **Department:** MAN
- **Prerequisites:** MAN 7205 or CI.

Theory and research relating to management efforts to design and implement continual developmental activities to alter climate and improve productivity and effectiveness in dynamic organizations.

### MAN 7900 Directed Readings in Management
- **Credits:** 3
- **Department:** MAN
- **Prerequisites:** MAN 7245 and MAN 7285 or CI.

Advanced reading program from selected areas in management under supervision of faculty member, requiring written contract describing requirements, prior to registration.

### MAN 7905 Independent Study in Management
- **Credits:** 1-4
- **Department:** MAN
- **Prerequisites:** CC. S/U only.

Course permits a management doctoral student to conduct research and pursue specific areas of interest with a faculty member as supervisor. Contract required to establish performance levels expected.

### MAN 7910 Directed Research in Management
- **Credits:** 3
- **Department:** MAN
- **Prerequisites:** MAN 7245 and MAN 7285 or CI. S/U.

Advanced directed research program in a specific area of management under supervision of a management faculty member.

### MAN 7920 Research Symposium
- **Credits:** 1
- **Department:** MAN

-
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
<th>Prerequisites</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>MAN 7930</td>
<td>Selected Topics in Management</td>
<td>3</td>
<td>BA MAN PR: MAN 7245 and MAN 7285 or CI.</td>
<td>A flexible format to offer specialized courses in management not available in regular curriculum.</td>
</tr>
<tr>
<td>MAN 7932</td>
<td>Seminar in Management</td>
<td>3</td>
<td>BA MAN PR: MAN 7245 and MAN 7285 or CI.</td>
<td>Critical examination of problems and issues relevant to contemporary management, such as productivity improvement, environmental constraints, etc.</td>
</tr>
<tr>
<td>MAN 7935</td>
<td>Seminar in Strategic Management</td>
<td>3</td>
<td>BA MAN PR: CC.</td>
<td>Introduces basic theoretical issues and empirical research in strategic management.</td>
</tr>
<tr>
<td>MAN 7980</td>
<td>Dissertation</td>
<td>2-21</td>
<td>BA MAN PR: Successful completion of preliminary exams; successful completion of Field Exams in each Major and Secondary field and admission to candidacy for Ph.D. program in Management.</td>
<td>Projection theorems and minimum norm problems, convex analysis, duality principle, constrained optimization, finite dimensional linear systems, controllability, optimal control and pontryagin maximum principle</td>
</tr>
<tr>
<td>MAP 6205</td>
<td>Control Theory and Optimization</td>
<td>3</td>
<td>AS MTH PR: MAA 5307 and MAP 5316 or CI.</td>
<td>Advanced topics selected from: existence and uniqueness theory, singularity theory, asymptotics and stability, eigenfunctions, perturbations, topological methods, spectral theory of differential operators.</td>
</tr>
<tr>
<td>MAP 6206</td>
<td>Math Opt Th II</td>
<td>3</td>
<td>AS MTH PR: MAA 5307 and MAP 5317, or CI.</td>
<td>Advanced topics from: elliptic boundary value problems, semigroup theory, Sobolev spaces, degree theory, regularity, evolution equations.</td>
</tr>
<tr>
<td>MAP 6336</td>
<td>Theory of Ordinary Differential Equations I</td>
<td>3</td>
<td>AS MTH PR: MAA 5307 and MAP 5317, or CI.</td>
<td>A study of marketing management activities from the perspective of firms doing business across national boundaries. Emphasis is upon aspects of marketing which are unique to international business and problem-solving within an international context.</td>
</tr>
<tr>
<td>MAP 6356</td>
<td>Partial Differential Equations</td>
<td>3</td>
<td>AS MTH PR: MAP 5345 and MAA 5307, or CI.</td>
<td>A study of managerial methods focusing on the establishment and control of optimum customer service levels in the areas of inventory, transportation, fixed facility location, material handling, and information. Component parts of each system are analyzed quantitatively. Reading, lecture, and case analysis.</td>
</tr>
<tr>
<td>MAR 6158</td>
<td>International Marketing Management</td>
<td>3</td>
<td>BA MKT PR: MAR 6815, CC.</td>
<td>Management of the promotional function as part of the total marketing program. Includes a study of relevant buyer behavior concepts, resources and budgets, media, creative aspects, and effectiveness measurements as they relate to the management tasks of developing, implementing, and evaluating promotional strategy.</td>
</tr>
<tr>
<td>MAR 6216</td>
<td>Logistics and Physical Distribution Management</td>
<td>3</td>
<td>BA MKT PR: MAR 6815 or CI.</td>
<td>A study of the sales function of the firm approached from the perspective of the sales manager. Emphasis is placed upon the development of the student's problem-solving, decision-making, and analytical skills.</td>
</tr>
<tr>
<td>MAR 6336</td>
<td>Promotional Management</td>
<td>3</td>
<td>BA MKT PR: MAR 6815, CC.</td>
<td></td>
</tr>
<tr>
<td>MAR 6406</td>
<td>Sales Management</td>
<td>3</td>
<td>BA MKT PR: MAR 6815, CC.</td>
<td></td>
</tr>
<tr>
<td>Course Code</td>
<td>Course Title</td>
<td>Credits</td>
<td>Degree</td>
<td>Prerequisites</td>
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</tr>
<tr>
<td>MAR 6646</td>
<td>Research for Marketing Managers</td>
<td>3 BA</td>
<td>MKT</td>
<td>PR: MAR 6815, QMB 6305, ISM 6021.</td>
</tr>
<tr>
<td>MAR 6815</td>
<td>Marketing Management</td>
<td>2 BA</td>
<td>MBA</td>
<td>PR: ECO 6114, CC.</td>
</tr>
<tr>
<td>MAR 6816</td>
<td>Marketing Strategy</td>
<td>3 BA</td>
<td>MKT</td>
<td>PR: MAR 6815, CC.</td>
</tr>
<tr>
<td>MAR 6907</td>
<td>Independent Study</td>
<td>1-19 BA</td>
<td>MKT</td>
<td>PR: CC. S/U.</td>
</tr>
<tr>
<td>MAR 6916</td>
<td>Directed Research</td>
<td>1-19 BA</td>
<td>MKT</td>
<td>PR: GR. M.L., CC. S/U.</td>
</tr>
<tr>
<td>MAR 6936</td>
<td>Selected Topics in Marketing</td>
<td>1-4 BA</td>
<td>MKT</td>
<td>PR: CI.</td>
</tr>
<tr>
<td>MAR 7555</td>
<td>Consumer Behavior Theory</td>
<td>3 BA</td>
<td>MKT</td>
<td>PR: CC.</td>
</tr>
<tr>
<td>MAR 7635</td>
<td>Advanced Marketing Research: Design and Technique</td>
<td>3 BA</td>
<td>MKT</td>
<td>PR: QMB 7565, QMB 7566 or CI.</td>
</tr>
<tr>
<td>MAR 7667</td>
<td>Marketing Models and Strategy Applications</td>
<td>3 BA</td>
<td>MKT</td>
<td>PR: CC.</td>
</tr>
<tr>
<td>MAR 7787</td>
<td>Marketing Theory and Thought</td>
<td>3 BA</td>
<td>MKT</td>
<td>PR: GS and CI.</td>
</tr>
<tr>
<td>MAR 7910</td>
<td>Independent Study in Marketing</td>
<td>1-3 BA</td>
<td>MKT</td>
<td>PR: CC. S/U.</td>
</tr>
<tr>
<td>MAR 7930</td>
<td>Advanced Seminar in Marketing</td>
<td>3 BA</td>
<td>MKT</td>
<td>PR: CC.</td>
</tr>
<tr>
<td>MAR 7931</td>
<td>Seminar on Selected Marketing Topics</td>
<td>3</td>
<td>BA</td>
<td>MKT</td>
</tr>
<tr>
<td>MAR 7980</td>
<td>Dissertation</td>
<td>2-21</td>
<td>BA</td>
<td>MKT</td>
</tr>
<tr>
<td>MAT 6908</td>
<td>Independent Study</td>
<td>1-19</td>
<td>AS</td>
<td>MTH</td>
</tr>
<tr>
<td>MAT 6911</td>
<td>Directed Research</td>
<td>1-19</td>
<td>AS</td>
<td>MTH</td>
</tr>
<tr>
<td>MAT 6932</td>
<td>Selected Topics</td>
<td>1-4</td>
<td>AS</td>
<td>MTH</td>
</tr>
<tr>
<td>MAT 6939</td>
<td>Graduate Seminar</td>
<td>1-4</td>
<td>AS</td>
<td>MTH</td>
</tr>
<tr>
<td>MAT 6971</td>
<td>Thesis: Master's</td>
<td>2-19</td>
<td>AS</td>
<td>MTH</td>
</tr>
<tr>
<td>MAT 7980</td>
<td>Dissertation: Doctoral</td>
<td>2-19</td>
<td>AS</td>
<td>MTH</td>
</tr>
<tr>
<td>MCB 6760</td>
<td>Microbial Symbioses</td>
<td>3</td>
<td>AS</td>
<td>BIO</td>
</tr>
<tr>
<td>MCB 6919</td>
<td>Independent Study</td>
<td>1-19</td>
<td>AS</td>
<td>BIO</td>
</tr>
<tr>
<td>MCB 6930</td>
<td>Graduate Microbiology Seminar</td>
<td>1</td>
<td>AS</td>
<td>BIO</td>
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<td>Course Title</td>
<td>Credits</td>
<td>Division</td>
<td>PR:</td>
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<tr>
<td>MEL 6705</td>
<td>Computer Assisted Diagnosis for Radiology</td>
<td>3</td>
<td>MD RAD</td>
<td></td>
</tr>
<tr>
<td>MEL 7502</td>
<td>Glaucoma</td>
<td>1-20</td>
<td>MD MSG</td>
<td></td>
</tr>
<tr>
<td>MEL 7503</td>
<td>Pediatric Ophthalmology</td>
<td>1-20</td>
<td>MD MSG</td>
<td></td>
</tr>
<tr>
<td>MET 6140</td>
<td>Weather, Climate, and Society</td>
<td>3</td>
<td>AS GPY</td>
<td>PR: Undergraduate general meteorology or CI.</td>
</tr>
<tr>
<td>MHS 6006</td>
<td>Trends and Principles of the Counseling Profession</td>
<td>4</td>
<td>ED EDG</td>
<td>PR: CI</td>
</tr>
<tr>
<td>MHS 6021</td>
<td>Counseling in Community Settings</td>
<td>3</td>
<td>ED EDG</td>
<td>PR: MHS 6006, MHS 6070, MHS 6200, MHS 6340, MHS 6400, MHS 6420, MHS 6480, MHS 6509, MHS 6780, CR: MHS 6800.</td>
</tr>
<tr>
<td>MHS 6070</td>
<td>Study of Mental Disorders for Counselors</td>
<td>3</td>
<td>ED EDG</td>
<td>PR: MHS 6006 or CI.</td>
</tr>
<tr>
<td>MHS 6200</td>
<td>Assessment and Appraisal Procedures</td>
<td>4</td>
<td>ED EDG</td>
<td>PR: MHS 6006.</td>
</tr>
<tr>
<td>MHS 6340</td>
<td>Career Development</td>
<td>4</td>
<td>ED EDG</td>
<td>PR: MHS 6006.</td>
</tr>
<tr>
<td>MHS 6341</td>
<td>Career Program Design and Evaluation</td>
<td>3</td>
<td>ED EDG</td>
<td>PR: MHS 6006</td>
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<tr>
<td>Course Code</td>
<td>Course Title</td>
<td>Credits</td>
<td>Co-Requisites</td>
<td>Description</td>
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<tr>
<td>MHS 6400</td>
<td>Counseling Theories and Practices</td>
<td>4 ED</td>
<td>EDG</td>
<td>PR: EDF 6354 and MHS 6006.                                                                                                 This course is the study of the nature of the counseling process with emphasis on major theoretical approaches and related personality theories, development of basic counseling skills and supervised practice.</td>
</tr>
<tr>
<td>MHS 6420</td>
<td>Multicultural Counseling with Diverse Populations</td>
<td>5 ED</td>
<td>EDG</td>
<td>PR: MHS 6400.                                                                                                                                   Counseling strategies applied to diverse populations including the use of school and community resources. Each student will select a specific population group for supervised research.</td>
</tr>
<tr>
<td>MHS 6421</td>
<td>Counseling Children</td>
<td>4 ED</td>
<td>EDG</td>
<td>PR: EDF 6354 and MHS 6006.                                                                                                                  Nature of the counseling process with an emphasis on major theoretical approaches, supervised practice, and application. Focus on work with elementary age children and consultations with parents, teachers and other professionals.</td>
</tr>
<tr>
<td>MHS 6430</td>
<td>Dynamics of Marriage &amp; Family Systems Theory</td>
<td>4 ED</td>
<td>EDG</td>
<td>PR: MHS 6400.                                                                                                                                   The major theoretical approaches to systems therapy including strategic, structural, contextual, object-relations and Adlerian models are presented. Also included is the investigation of transgenerational problems and symbolic structures in families as they relate to General Systems Theory.</td>
</tr>
<tr>
<td>MHS 6431</td>
<td>Family Therapy &amp; Techniques</td>
<td>4 ED</td>
<td>EDG</td>
<td>PR: MHS 6430.                                                                                                                                  This course concentrates on the theory and application of intervention techniques to family systems. Structured experiences include interviewing, assessing, making therapeutic interventions, observing family interaction, and developing basic aspects in treating families.</td>
</tr>
<tr>
<td>MHS 6432</td>
<td>Marriage Therapy</td>
<td>4 ED</td>
<td>EDG</td>
<td>PR: MHS 6430.                                                                                                                                   A study of the marriage relationship with emphasis on issues of premarital, marital, divorce, intimacy, and conflict management. Course activities introduce students to a wide variety of therapy procedures and intervention strategies.</td>
</tr>
<tr>
<td>MHS 6450</td>
<td>Counseling Substance Abuse in School and Community</td>
<td>4 ED</td>
<td>EDG</td>
<td>PR: MHS 6400.                                                                                                                                   This course prepares counselors to work with substance abuse issues, including prevention, in schools and community out-patient settings. Includes counseling and program approaches found to be effective in addressing substance abuse.</td>
</tr>
<tr>
<td>MHS 6480</td>
<td>Human Sexuality Issues for Counselors</td>
<td>4 ED</td>
<td>EDG</td>
<td>PR: MHS 6400.                                                                                                                                   Emphases include exploration of various dimensions of human sexuality; dynamics of major individual and societal sexuality issues; theoretical approaches to counseling related to sexuality issues.</td>
</tr>
<tr>
<td>MHS 6509</td>
<td>Group Counseling Theories and Practices</td>
<td>4 ED</td>
<td>EDG</td>
<td>PR: MHS 6400.                                                                                                                                   An experiential study of group structure, group dynamics, methodology, and leadership models applicable to counseling clients in school and community settings. Includes skill building through supervised practice.</td>
</tr>
<tr>
<td>MHS 6601</td>
<td>Consultation for the Counseling Profession</td>
<td>3 ED</td>
<td>EDG</td>
<td>PR: MHS 6400 and MHS 6006. Non-majors need instructor's approval.                                                                 Even a study of consultation theory and practice as used by counselors working in schools and mental health facilities, particularly with educators, other professionals, and parents, individually and in groups.</td>
</tr>
<tr>
<td>MHS 6780</td>
<td>Legal and Ethical Issues in the Counseling Profession</td>
<td>3 ED</td>
<td>EDG</td>
<td>PR: MHS 6006.                                                                                                                                   Study of legal, ethical and related issues affecting the role and responsibilities of counselors in schools and mental health facilities.</td>
</tr>
<tr>
<td>MHS 6800</td>
<td>Practicum in Counseling Adolescents and Adults</td>
<td>4 ED</td>
<td>EDG</td>
<td>PR: MHS 6400. S/U. DPR.                                                                                                                          Supervised counseling for integration and application of knowledge and skills gained in didactic study.</td>
</tr>
<tr>
<td>MHS 6905</td>
<td>Individual Study</td>
<td>1-4 ED</td>
<td>EDG</td>
<td>PR: DPR.                                                                                                                                    Independent study, research, and experience relating to professional counseling under the supervision of a member of the Counselor Education faculty.</td>
</tr>
<tr>
<td>Course Code</td>
<td>Course Title</td>
<td>Credits</td>
<td>Type</td>
<td>Department</td>
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<tr>
<td>MHS 6906</td>
<td>Independent Study in Behavior Analysis Applications in Community Settings</td>
<td>1-6</td>
<td>ED</td>
<td>EDG</td>
</tr>
<tr>
<td>MHS 6930</td>
<td>Seminar In Guidance</td>
<td>1-2</td>
<td>ED</td>
<td>EDG</td>
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<tr>
<td>MHS 6938</td>
<td>Applied Behavior Analysis in Community Settings</td>
<td>1-4</td>
<td>ED</td>
<td>EDG</td>
</tr>
<tr>
<td>MHS 6940</td>
<td>Practicum in Behavior Analysis in Community Settings</td>
<td>2-4</td>
<td>ED</td>
<td>EDG</td>
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<tr>
<td>MHS 6970</td>
<td>Thesis: Masters/Educational Specialist</td>
<td>2-19</td>
<td>ED</td>
<td>EDG</td>
</tr>
<tr>
<td>MHS 6971</td>
<td>Thesis in Applied Behavior Analysis</td>
<td>2-6</td>
<td>ED</td>
<td>EDG</td>
</tr>
<tr>
<td>MHS 7401</td>
<td>Advanced Counseling: Theories and Practicum</td>
<td>4</td>
<td>ED</td>
<td>EDG</td>
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<tr>
<td>MHS 7600</td>
<td>Supervision: Theories and Practicum</td>
<td>4</td>
<td>ED</td>
<td>EDG</td>
</tr>
<tr>
<td>MHS 7740</td>
<td>Survey Course in Planning, Evaluation and Accountability</td>
<td>3</td>
<td>ED</td>
<td>EDG</td>
</tr>
<tr>
<td>MHS 7930</td>
<td>Advanced Seminar in Counselor Education</td>
<td>2</td>
<td>ED</td>
<td>EDG</td>
</tr>
<tr>
<td>MHS 7980</td>
<td>Dissertation</td>
<td>2-30</td>
<td>ED</td>
<td>EDG</td>
</tr>
<tr>
<td>MMC 6206</td>
<td>Mass Communications Ethics</td>
<td>3</td>
<td>AS</td>
<td>COM</td>
</tr>
<tr>
<td>MMC 6306</td>
<td>International Communications Seminar</td>
<td>3</td>
<td>AS</td>
<td>COM</td>
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<tr>
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<td>Credits</td>
<td>Department</td>
<td>PR/ CC.</td>
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<td>MMC 6401</td>
<td>Mass Communication Theory</td>
<td>3</td>
<td>COM</td>
<td>PR. CC.</td>
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<tr>
<td>MMC 6421</td>
<td>Research Methods in Mass Communications</td>
<td>3</td>
<td>COM</td>
<td>PR. CC.</td>
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<tr>
<td>MMC 6608</td>
<td>Public Opinion and the Mass Media</td>
<td>3</td>
<td>COM</td>
<td>PR. CC.</td>
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<tr>
<td>MMC 6612</td>
<td>Seminar: Law and the Mass Media</td>
<td>3</td>
<td>COM</td>
<td>PR. CC.</td>
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<tr>
<td>MMC 6900</td>
<td>Directed Reading in Mass Communications</td>
<td>1-3</td>
<td>COM</td>
<td>PR. CI and permission of graduate advisor. S/U.</td>
</tr>
<tr>
<td>MMC 6910</td>
<td>Individual Research in Mass Communications</td>
<td>1-3</td>
<td>COM</td>
<td>PR. CI and permission of graduate advisor. S/U.</td>
</tr>
<tr>
<td>MMC 6920</td>
<td>Introductory Mass Communications Seminar</td>
<td>3</td>
<td>COM</td>
<td>PR. CC.</td>
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<tr>
<td>MMC 6936</td>
<td>Selected Topics in Mass Communications</td>
<td>3</td>
<td>COM</td>
<td>PR. CC.</td>
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<tr>
<td>MMC 6945</td>
<td>Professional Practicum</td>
<td>3</td>
<td>COM</td>
<td>PR. 12 graduate hours in mass communications and CC. S/U.</td>
</tr>
<tr>
<td>MMC 6950</td>
<td>Non-Thesis Project</td>
<td>3</td>
<td>COM</td>
<td>PR. CI and permission of graduate advisor. S/U.</td>
</tr>
<tr>
<td>MMC 6971</td>
<td>Thesis: Master's</td>
<td>2-3</td>
<td>COM</td>
<td>PR. CI and permission of graduate advisor. S/U. Students must take minimum of 6 hours.</td>
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<tr>
<td>MUC 6251</td>
<td>Composition</td>
<td>4</td>
<td>MUS</td>
<td>PR. DPR.</td>
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<td>Course Code</td>
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<td>Prerequisites</td>
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<tr>
<td>MUC 6625</td>
<td>Seminar In Jazz Compositional Styles</td>
<td>2 VP</td>
<td>MUS</td>
<td>PR: DPR.</td>
</tr>
<tr>
<td>MUC 6626</td>
<td>Jazz Composition</td>
<td>4 VP</td>
<td>MUS</td>
<td>PR: CI. Required of all composition majors.</td>
</tr>
<tr>
<td>MUE 6080</td>
<td>Foundations And Principles Of Music Education</td>
<td>3 VP</td>
<td>MUS</td>
<td>PR: Acceptance into Music Education Graduate Program or DPR.</td>
</tr>
<tr>
<td>MUE 6116</td>
<td>Advanced Techniques and Research in Elementary School Music</td>
<td>3 VP</td>
<td>MUS</td>
<td>PR: Acceptance in the Music Education Graduate Program or DPR.</td>
</tr>
<tr>
<td>MUE 6336</td>
<td>Advanced Techniques and Research in Vocal/Choral Music Education</td>
<td>3 VP</td>
<td>MUS</td>
<td>PR: Acceptance in the Music Education Graduate Program or DPR.</td>
</tr>
<tr>
<td>MUE 6347</td>
<td>Advanced Techniques and Research in Instrumental Music Education</td>
<td>3 VP</td>
<td>MUS</td>
<td>PR: Acceptance in the Music Education Graduate Program or DPR.</td>
</tr>
<tr>
<td>MUE 6648</td>
<td>Techniques and Research in Alternate Music Education Methods</td>
<td>3 VP</td>
<td>MUS</td>
<td>PR: MUS 6520</td>
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<tr>
<td>MUE 6906</td>
<td>Independent Study: Music Education</td>
<td>1-6 VP</td>
<td>MUS</td>
<td>S/U. DPR.</td>
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<tr>
<td>MUE 6942</td>
<td>Graduate Internship in Music Education</td>
<td>6 VP</td>
<td>MUS</td>
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<tr>
<td>MUE 6971</td>
<td>Thesis: Masters/Eds</td>
<td>2-19 VP</td>
<td>MUS</td>
<td>PR: DPR.</td>
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<tr>
<td>MUE 7815</td>
<td>Foundations Of Musical Learning And Teaching</td>
<td>3 VP</td>
<td>MUS</td>
<td>PR: Acceptance in the Music Education Graduate Program, a graduate level educational psychology course or its equivalent, or DPR.</td>
</tr>
<tr>
<td>MUE 7835</td>
<td>Philosophical Issues in Music Education</td>
<td>3 VP</td>
<td>MUS</td>
<td>PR: Acceptance in the Music Education Graduate Program or CI.</td>
</tr>
<tr>
<td>Course Code</td>
<td>Course Title</td>
<td>Credit Hours</td>
<td>Department</td>
<td>Prerequisites</td>
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<tr>
<td>MUE 7937</td>
<td>Special Topics in Music Education</td>
<td>3 VP</td>
<td>MUS</td>
<td>PR: Dept. Approval Required</td>
</tr>
<tr>
<td>MUE 7939</td>
<td>Doctoral Seminar in Music Education Research</td>
<td>1-2 VP</td>
<td>MUS</td>
<td>PR: Admission to Ph.D. Program</td>
</tr>
<tr>
<td>MUE 7980</td>
<td>Dissertation</td>
<td>2-19 VP</td>
<td>MUS</td>
<td>PR: Admitted to Candidacy. S/U. DPR.</td>
</tr>
<tr>
<td>MUE 7990</td>
<td>Doctoral Seminar on Music in Higher Education</td>
<td>3 VP</td>
<td>MUS</td>
<td>PR: Dept. Approval Required</td>
</tr>
<tr>
<td>MUG 6256</td>
<td>Choral Literature And Conducting I</td>
<td>4 VP</td>
<td>MUS</td>
<td>PR: DPR.</td>
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<tr>
<td>MUG 6257</td>
<td>Choral Literature And Conducting II</td>
<td>4 VP</td>
<td>MUS</td>
<td>PR: DPR.</td>
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<td>MUG 6258</td>
<td>Choral Literature And Conducting III</td>
<td>4 VP</td>
<td>MUS</td>
<td>PR: DPR.</td>
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<tr>
<td>MUG 6307</td>
<td>Band/Wind Ensemble Conducting</td>
<td>3 VP</td>
<td>MUS</td>
<td>PR: DPR.</td>
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<td>MUG 6930</td>
<td>Advanced Choral Techniques</td>
<td>3 VP</td>
<td>MUS</td>
<td>PR: DPR.</td>
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<tr>
<td>MUL 6205</td>
<td>Advanced Choral Conducting</td>
<td>2 VP</td>
<td>MUS</td>
<td>PR: Dept. Approval Required.</td>
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<tr>
<td>MUL 6375</td>
<td>Twentieth Century Music Literature</td>
<td>3 VP</td>
<td>MUS</td>
<td>PR: DPR.</td>
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<tr>
<td>MUL 6410</td>
<td>Keyboard Repertory I</td>
<td>2 VP</td>
<td>MUS</td>
<td>PR: DPR.</td>
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<td>Course Code</td>
<td>Course Title</td>
<td>Credits</td>
<td>Hours</td>
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<tr>
<td>MUL 6411</td>
<td>Keyboard Repertory II</td>
<td>2</td>
<td>VP</td>
<td>MUS</td>
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<tr>
<td>MUL 6505</td>
<td>Symphonic Literature</td>
<td>2</td>
<td>VP</td>
<td>MUS</td>
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<tr>
<td>MUL 6555</td>
<td>Band/Wind Ensemble Literature</td>
<td>3</td>
<td>VP</td>
<td>MUS</td>
</tr>
<tr>
<td>MUL 6565</td>
<td>Chamber Music Literature</td>
<td>2</td>
<td>VP</td>
<td>MUS</td>
</tr>
<tr>
<td>MUL 6624</td>
<td>Song Literature I</td>
<td>2</td>
<td>VP</td>
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<tr>
<td>MUL 6625</td>
<td>Song Literature II</td>
<td>2</td>
<td>VP</td>
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<tr>
<td>MUL 6655</td>
<td>Choral Literature 1500-1800</td>
<td>3</td>
<td>VP</td>
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<tr>
<td>MUL 6656</td>
<td>Choral Literature 1800-present</td>
<td>3</td>
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<tr>
<td>MUL 6671</td>
<td>Opera Literature</td>
<td>2</td>
<td>VP</td>
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<tr>
<td>MUL 6687</td>
<td>Solo Vocal Literature In Oratorio</td>
<td>2</td>
<td>VP</td>
<td>MUS</td>
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<tr>
<td>MUN 6145</td>
<td>Wind Ensemble</td>
<td>1</td>
<td>VP</td>
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<tr>
<td>MUN 6215</td>
<td>University Orchestra</td>
<td>1</td>
<td>VP</td>
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<tr>
<td>MUN 6315</td>
<td>University Singers</td>
<td>1</td>
<td>VP</td>
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<td>Course Title</td>
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<td>MUN</td>
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<td>Chamber Singers</td>
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<tr>
<td>MUN</td>
<td>6385</td>
<td>University-Community Chorus</td>
<td>I</td>
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<td>MUN</td>
<td>6416</td>
<td>String Quartet</td>
<td>I</td>
<td>VP</td>
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<tr>
<td>MUN</td>
<td>6429</td>
<td>Woodwind Quintet</td>
<td>I</td>
<td>VP</td>
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<tr>
<td>MUN</td>
<td>6435</td>
<td>Brass Choir</td>
<td>I</td>
<td>VP</td>
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<tr>
<td>MUN</td>
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<td>Brass Quintet</td>
<td>I</td>
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<td>6437</td>
<td>Horn Quartet</td>
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<td>VP</td>
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<td>Percussion Ensemble</td>
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<td>Marimba Ensemble</td>
<td>I</td>
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<td>Piano Ensemble</td>
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<td>Collegium Musicum</td>
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<td>Jazz Ensemble</td>
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<td>MUN 6716</td>
<td>Jazz Chamber Ensemble</td>
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<td>VP</td>
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<tr>
<td>MUN 6505</td>
<td>Opera Workshop</td>
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<td>VP</td>
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<td>MUS 6520</td>
<td>Computer Applications in Music Education</td>
<td>3</td>
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<tr>
<td>MUS 6793</td>
<td>Techniques Of Research In Music And Music Education</td>
<td>3</td>
<td>VP</td>
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<td>MUS 6906</td>
<td>Independent Study</td>
<td>1-19</td>
<td>VP</td>
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<td>MUS 6910</td>
<td>Directed Research</td>
<td>1-19</td>
<td>VP</td>
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<td>MUS 6971</td>
<td>Thesis: Master's</td>
<td>2-19</td>
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<tr>
<td>MUS 6976</td>
<td>Graduate Recital</td>
<td>2</td>
<td>VP</td>
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<tr>
<td>MUT 6545</td>
<td>Analysis of 18th and 19th Century Music</td>
<td>3</td>
<td>VP</td>
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</tr>
<tr>
<td>MUT 6586</td>
<td>Critical Analysis-History</td>
<td>2</td>
<td>VP</td>
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<tr>
<td>MUT 6626</td>
<td>Analysis of Twentieth Century Music</td>
<td>3</td>
<td>VP</td>
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<td>MUT 6627</td>
<td>Schenkerian Analysis</td>
<td>3</td>
<td>VP</td>
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<tr>
<td>MUT 6665</td>
<td>Seminar Jazz Styles And Analysis</td>
<td>2</td>
<td>VP</td>
<td>MUS</td>
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**MUN 6716 Jazz Chamber Ensemble**
Open to all university graduate students with the necessary proficiency in their performance media; study and performance of music for small combinations of voices, string, woodwind, brass or percussion instruments, and piano.

**MUS 6520 Computer Applications in Music Education**
An examination of the teaching and learning processes in music as they are affected by music technology. Through the course, students will explore a variety of music software types and investigate the potential role of technology in music education.

**MUS 6793 Techniques Of Research In Music And Music Education**
A study of the methods of research and professional bibliography and with an individual, formal project as a terminal requirement.

**MUS 6906 Independent Study**
Independent study in which student must have a contract with an instructor.

**MUS 6910 Directed Research**

**MUS 6971 Thesis: Master's**

**MUS 6976 Graduate Recital**
An in-depth examination of the music of the 18th and 19th centuries. Students provide detailed analyses of selected works and read appropriate scholarly writings. Additional activities may include in-class presentations and a research paper.

**MUT 6545 Analysis of 18th and 19th Century Music**
A study of historical developments of music in western civilization. Emphasis on a different historical period each semester, from the Middle Ages through the Romantic Period.

**MUT 6626 Analysis of Twentieth Century Music**
An in-depth examination of representative works. Students will learn analytical techniques such as set theory and 12-tons techniques, read scholarly articles, give in-class presentations, and write a research paper to gain an understanding of the theoretical and musical trends of the 20th-century.

**MUT 6627 Schenkerian Analysis**
A study in theories and analytical methods developed by German theorist Heinrich Schenker. Students are expected to demonstrate their knowledge of these theoretical concepts by analyzing relevant literature, investigating scholarly articles, giving class presentations, and writing a research paper.

**MUT 6665 Seminar Jazz Styles And Analysis**
A studio course study of the improvised solos of the major innovators in jazz. Oriented toward the continuing development of students' soloing ability.
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
<th>Department</th>
<th>Prerequisites</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>MUT 6751</td>
<td>Teaching of Music Theory</td>
<td>3</td>
<td>MUS</td>
<td>PR: DPR</td>
<td>Comparative study of teaching, techniques, procedures, and materials used in teaching visual and aural theory.</td>
</tr>
<tr>
<td>MUT 6760</td>
<td>History of Music Theory</td>
<td>3</td>
<td>MUS</td>
<td>PR: DPR</td>
<td>Evolutionary history of the materials of western music including tuning systems, scales, models, tonality, rhythm, counterpoint and harmony; also the exploration of treatises and theorists contributing to the evolution.</td>
</tr>
<tr>
<td>MVB 6453</td>
<td>Applied Trombone</td>
<td>4</td>
<td>MUS</td>
<td>PR: DPR, Necessary competency determined by faculty jury audition. Required registration in major performance ensemble.</td>
<td>Required of all applied music majors. Private and class instruction.</td>
</tr>
<tr>
<td>MVJ 6463</td>
<td>Applied Jazz Guitar</td>
<td>4</td>
<td>MUS</td>
<td>PR: Necessary competency determined by faculty jury audition. Required registration in major performance ensemble.</td>
<td>Required of all applied music majors. Private and class instruction.</td>
</tr>
<tr>
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<tr>
<td>MVJ</td>
<td>6469 Applied Jazz Percussion</td>
<td>4 VP</td>
<td>MUS</td>
<td>PR: Necessary competency determined by faculty jury audition. Required of all applied music majors. Required registration in major performance ensemble.</td>
<td>Private and class instruction.</td>
</tr>
<tr>
<td>MVJ</td>
<td>6952 Applied Jazz Performance</td>
<td>4 VP</td>
<td>MUS</td>
<td>PR: Necessary competency determined by faculty jury audition. Required of all applied music majors. Required registration in major performance ensemble.</td>
<td>Private and class instruction.</td>
</tr>
<tr>
<td>MVK</td>
<td>6650 Graduate Piano Pedagogy I</td>
<td>2 VP</td>
<td>MUS</td>
<td>PR: GS in performance and DPR Emphasis on techniques used in teaching the individual student in performance.</td>
<td></td>
</tr>
<tr>
<td>MVK</td>
<td>6651 Graduate Piano Pedagogy II</td>
<td>2 VP</td>
<td>MUS</td>
<td>PR: GS in performance and DPR Emphasis on techniques used in teaching the individual student in performance.</td>
<td></td>
</tr>
<tr>
<td>MVP</td>
<td>6451 Applied Percussion</td>
<td>4 VP</td>
<td>MUS</td>
<td>PR: DPR. Necessary competency determined by faculty jury audition. Required registration in major performance ensemble.</td>
<td>Required of all applied music majors. Private and class instruction.</td>
</tr>
<tr>
<td>MVS</td>
<td>6451 Applied Violin</td>
<td>4 VP</td>
<td>MUS</td>
<td>PR: DPR. Necessary competency determined by faculty jury audition. Required registration in major performance ensemble.</td>
<td>Required of all applied music majors. Private and class instruction.</td>
</tr>
<tr>
<td>MVS</td>
<td>6452 Applied Viola</td>
<td>4 VP</td>
<td>MUS</td>
<td>PR: DPR. Necessary competency determined by faculty jury audition. Required registration in major performance ensemble.</td>
<td>Required of all applied music majors. Private and class instruction.</td>
</tr>
<tr>
<td>MVS</td>
<td>6453 Applied Violoncello</td>
<td>4 VP</td>
<td>MUS</td>
<td>PR: DPR. Necessary competency determined by faculty jury audition. Required registration in major performance ensemble.</td>
<td>Required of all applied music majors. Private and class instruction.</td>
</tr>
<tr>
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<tr>
<td>MVV</td>
<td>Applied Flute</td>
<td>4</td>
<td>VP</td>
<td>MUS</td>
<td>PR: DPR. Necessary competency determined by faculty jury audition. Required registration in major performance ensemble.</td>
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<tr>
<td>MVV</td>
<td>Applied Oboe</td>
<td>4</td>
<td>VP</td>
<td>MUS</td>
<td>PR: DPR. Necessary competency determined by faculty jury audition. Required registration in major performance ensemble.</td>
</tr>
<tr>
<td>MVV</td>
<td>Applied Clarinet</td>
<td>4</td>
<td>VP</td>
<td>MUS</td>
<td>PR: DPR. Necessary competency determined by faculty jury audition. Required registration in major performance ensemble.</td>
</tr>
<tr>
<td>MVV</td>
<td>Applied Bassoon</td>
<td>4</td>
<td>VP</td>
<td>MUS</td>
<td>PR: DPR. Necessary competency determined by faculty jury audition. Required registration in major performance ensemble.</td>
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<tr>
<td>NGR</td>
<td>Health Assessment in Advanced Practice</td>
<td>3</td>
<td>NU</td>
<td>NUR</td>
<td>PR: NUR 3065C or equivalent; NGR 6140.</td>
</tr>
<tr>
<td>NGR</td>
<td>Family and Population-Based Health Promotion</td>
<td>3</td>
<td>NU</td>
<td>NUR</td>
<td>PR: NGR 6121; CI.</td>
</tr>
<tr>
<td>NGR</td>
<td>Oncology Nursing Concepts</td>
<td>3</td>
<td>NU</td>
<td>NUR</td>
<td>CI.</td>
</tr>
<tr>
<td>NGR</td>
<td>Counseling for the Terminally Ill</td>
<td>3</td>
<td>NU</td>
<td>NUR</td>
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<tr>
<td>Course Code</td>
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<td>Prerequisites</td>
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<tr>
<td>NGR 6121</td>
<td>Theoretical Basis Of Advanced Practice Nursing</td>
<td>3</td>
<td>NU NUR CL</td>
<td>Examination of knowledge development in nursing science. Emphasis given to evaluation of utility of theories and models from nursing and related fields in explaining and guiding advanced practice. Beginning skills in concept analysis/development included.</td>
<td></td>
</tr>
<tr>
<td>NGR 6135</td>
<td>Ethical, Legal, and Policy Issues in Advanced Nursing Practice</td>
<td>3</td>
<td>NU NUR CL</td>
<td>Primary emphases on contemporary ethical, legal, and policy issues related to advanced nursing practice and health care delivery. Issues are analyzed at the global, national, and local levels. Nursing's role in agenda setting and strategies for health care reform are presented.</td>
<td></td>
</tr>
<tr>
<td>NGR 6140</td>
<td>Pathophysiology for Advanced Practice</td>
<td>3</td>
<td>NU NUR CL</td>
<td>Central concepts of pathophysiology: cells and tissues and organs and systems. Provides essential knowledge base in pathophysiology across the life span for advanced nurse practitioners.</td>
<td></td>
</tr>
<tr>
<td>NGR 6142</td>
<td>Pathobiology Of Neoplasia</td>
<td>3</td>
<td>NU NUR CL</td>
<td>Emphasizes basic concepts of cellular differentiation and the abnormal cytological changes occurring in the pathogenesis of Neoplasia. Also emphasized is the role of the advanced practice nurse in relation to the role of the immune system and diet in oncogenesis, and the epidemiology and pathology of specific types of cancers.</td>
<td></td>
</tr>
<tr>
<td>NGR 6143</td>
<td>Pathophysiologic Concepts in Acute Care Nursing</td>
<td>3</td>
<td>NU NUR PR: NGR 6140; NGR 6121; CI.</td>
<td>This course will explore pathophysiologic mechanisms of the major body systems in critically ill patients across the lifespan.</td>
<td></td>
</tr>
<tr>
<td>NGR 6194</td>
<td>Substance Abuse Across the Lifespan</td>
<td>3</td>
<td>NU NUR</td>
<td>This course introduces the student to concepts of substance abuse and theories of addiction. The applicability of theories and concepts to clinical assessment, diagnosis and intervention with coient populations across the lifespan is explored.</td>
<td></td>
</tr>
<tr>
<td>NGR 6196</td>
<td>Managing Healthcare Resources</td>
<td>3</td>
<td>NU NUR PR: CL</td>
<td>Managing human and financial resources to achieve quality outcome and enhance health care services. Focus on quantifying processes of care and outcomes and on the continuous improvement of quality in health care program delivery.</td>
<td></td>
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<tr>
<td>NGR 6197</td>
<td>Nursing Interventions into the Effects of Drug and Alcohol Abuse</td>
<td>2</td>
<td>NU NUR</td>
<td>Focuses on the assessment and treatment of individuals and families who are in the acute phase of addiction. Emphasis will be placed on treatment outcomes for designated populations with consideration for cultural, socioeconomic, political, and legal/ethical factors.</td>
<td></td>
</tr>
<tr>
<td>NGR 6198</td>
<td>Nursing Interventions in the Rehabilitation of Clients with Drug or Alcohol Abuse</td>
<td>2</td>
<td>NU NUR</td>
<td>Focuses on models of treatment and interventions for clients and families who are in the rehabilitation and maintenance phases of substance abuse. Emphasis will be placed on rehabilitation outcomes for designated populations with consideration for cultural, socioeconomic, political and legal/ethical factors.</td>
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<tr>
<td>NGR 6199</td>
<td>Pharmacology for Advanced Practice</td>
<td>3</td>
<td>NU NUR</td>
<td>Pharmacotherapeutics for the advanced practice nurse. Focus on pharmacokinetics, therapeutic and adverse effects, drug interactions, and evidence-based prescribing guidelines.</td>
<td></td>
</tr>
<tr>
<td>NGR 6205</td>
<td>Primary Care Practicum: Adolescents and Women</td>
<td>3</td>
<td>NU PR: NGR 6001, 6121, 6800, 6140 and 6199; CR: NGR 6205L</td>
<td>Focus on the primary care of adolescents and women. Health promotion, maintenance and the assessment and management of common illness as well as developmental and high-risk behaviors, episodic problems, and childbearing assessment will be included.</td>
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</tr>
<tr>
<td>NGR 6205L</td>
<td>Primary Care Practicum: Adolescents and Women</td>
<td>5</td>
<td>NU PR or CR: NUR 6205</td>
<td>Focus on application of the knowledge gained in the classroom in Primary Care: Adolescents and Women to this patient/client population. Health screening and management of commonly presenting health problems will structure the clinical experiences of this course.</td>
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<tr>
<td>Course Code</td>
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<td>Units</td>
<td>Prerequisites</td>
<td>Focus or Description</td>
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<tr>
<td>NGR 6207</td>
<td>Primary Care: Adults</td>
<td>3</td>
<td>NU</td>
<td>NUR PR: NGR 6001, 6140 and 6199</td>
<td>Focus on the adult patient/client from mid-life to old age related to health promotion, maintenance and prevention of diseases. Including assessment and management of episodic and chronic illness for these individuals in primary care settings including culturally diverse and vulnerable populations.</td>
</tr>
<tr>
<td>NGR 6207L</td>
<td>Primary Care Practicum: Adults</td>
<td>2</td>
<td>NU</td>
<td>NUR PR: NGR 6001, 6121, 6800, 6140 and 6199; CR: NGR 6207</td>
<td>Focus on application of the knowledge gained in the classroom in Primary Care: Adults to the patient/client population between mid-life and older adult. Health screening and management of commonly presenting health problems will structure the clinical experience of this course.</td>
</tr>
<tr>
<td>NGR 6212L</td>
<td>Advanced Practicum in Adult Health</td>
<td>1-9</td>
<td>NU</td>
<td>NUR PR: NGR 6204, or NGR 6206; CI.</td>
<td>Clinical experiences in advanced adult health nursing practice focusing on application of theoretical and conceptual knowledge relative to adults, 13 years of age and older. Minimum 6 hours required (1:6 ratio).</td>
</tr>
<tr>
<td>NGR 6232</td>
<td>Selected Concepts in the Acutely Ill Adult</td>
<td>3</td>
<td>NU</td>
<td>NUR PR: NGR 6140.</td>
<td>This course analyzes the multiple needs of the critically ill adult. Focuses on age specific critically ill population. Examines the response to the experience of critical illness.</td>
</tr>
<tr>
<td>NGR 6243</td>
<td>Clinical Management of the Acutely Ill Adult</td>
<td>3</td>
<td>NU</td>
<td>NUR PR: NGR 6001, NGR 6143, CI.</td>
<td>Focuses on advanced therapeutics and clinical management of selected acute health problems of adults. Diagnostic reasoning and intervention strategies are emphasized.</td>
</tr>
<tr>
<td>NGR 6253L</td>
<td>Gerontology Nursing Practicum I</td>
<td>3-4</td>
<td>NU</td>
<td>NUR</td>
<td>Emphasis on functional ability of the older adult, normal biological aging, changes, developmental tasks, psychosocial, cultural and spiritual dimensions. Focuses on health promotion, disease prevention and management of acute and chronic illnesses of culturally diverse older adults.</td>
</tr>
<tr>
<td>NGR 6255</td>
<td>Primary Care of Older Adults</td>
<td>3</td>
<td>NU</td>
<td>NUR PR: NGR 6001, NGR 6140, CI.</td>
<td>Provides in-depth knowledge of: demographic, comparative, and differential aging; geriatric anatomy and physiology; the biological influence on aging psychology; the control of aging sociology; geriatric pharmacology; management of geriatric syndromes; and management of multiple diagnoses.</td>
</tr>
<tr>
<td>NGR 6258</td>
<td>Advanced Primary Care of Older Adults</td>
<td>3</td>
<td>NU</td>
<td>NUR PR: NGR 6001, NGR 6140, CI.</td>
<td>Students will apply gerontological theories and assessment techniques in the advanced care of the elderly (1:4 ratio).</td>
</tr>
<tr>
<td>NGR 6259</td>
<td>Gerontological Nursing Practicum</td>
<td>1-9</td>
<td>NU</td>
<td>NUR PR: NGR 6255, or NGR 6258.</td>
<td>Focus on high risk, vulnerable adult patients/clients across the life span with complex, multi-system health problems. The course covers the assessment, management and continuity of care for individuals with these complex acute and chronic health problems.</td>
</tr>
<tr>
<td>NGR 6271</td>
<td>Adult Health Management</td>
<td>3</td>
<td>NU</td>
<td>NUR PR: NGR 6205, NGR 6205L, NGR 6207, NGR 6207L</td>
<td>Focuses on development of clinical competencies necessary for advanced practice nurse to function as a child health nurse practitioner.</td>
</tr>
<tr>
<td>NGR 6302L</td>
<td>Clinical Practicum: Advanced Child Health Nursing</td>
<td>1-9</td>
<td>NU</td>
<td>NUR PR: NGR 6001.</td>
<td>Focus on the primary health care of children from birth to pre-adolescent. Health maintenance and the management of common acute illnesses are included.</td>
</tr>
<tr>
<td>NGR 6305</td>
<td>Primary Care: Children</td>
<td>3</td>
<td>NU</td>
<td>NUR PR: NGR 6001, 6121, 6800, 6140 and 6199; CR: NGR 6305L</td>
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<tr>
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<td>Type</td>
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<td>Description</td>
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<tr>
<td>NGR 6305L</td>
<td>Primary Care Practicum: Children</td>
<td>3</td>
<td>NU</td>
<td>NUR</td>
<td>Focus on application of knowledge gained in the classroom in Primary Care. Children are taught to evaluate patient/client population between birth and pre-adolescent years. Screening, health maintenance, and management of health problems will make up the clinical experiences of this course.</td>
</tr>
<tr>
<td>NGR 6371</td>
<td>Child Health Management</td>
<td>3</td>
<td>NU</td>
<td>NUR</td>
<td>Focus on primary care of children and adolescents with selected chronic, high risk, and multi-system health conditions. Assessment and management of commonly presenting chronic conditions in children as well as issues of continuity of care, family coping, child development, community resources, ethics and public policy will be examined.</td>
</tr>
<tr>
<td>NGR 6500</td>
<td>Theoretical Foundations for Advanced Psychiatric Nursing</td>
<td>3</td>
<td>NU</td>
<td>NUR</td>
<td>Theoretical basis for advanced practice in psychiatric nursing. Focus on selected psychodynamic, neuropsychological, development, and systems models of behavior and their impact for nursing practice.</td>
</tr>
<tr>
<td>NGR 6500L</td>
<td>Psychiatric APN Practicum: Psychiatric Care Outpatient</td>
<td>1-6</td>
<td>NU</td>
<td>NUR</td>
<td>Clinical experience in advanced psychiatric mental health nursing that focuses on comprehensive mental health assessment, crisis intervention and brief psychotherapy.</td>
</tr>
<tr>
<td>NGR 6371</td>
<td>Psychopathology for Advanced Psychiatric Nursing</td>
<td>3</td>
<td>NU</td>
<td>NUR</td>
<td>In-depth study of psychosocial factors contributing to psychosocial dysfunction, and diagnostic reasoning basis to advanced practice psychiatric nursing, emphasis on etiology and differential diagnoses.</td>
</tr>
<tr>
<td>NGR 6500L</td>
<td>Practicum II: Advanced Psychiatric Mental Health Nursing</td>
<td>1-4</td>
<td>NU</td>
<td>NUR</td>
<td>Clinical experience in advanced psychiatric mental health nursing that focuses on individual group interventions and selected clients experiencing psychiatric/mental health problems.</td>
</tr>
<tr>
<td>NGR 6502</td>
<td>Treatment Modalities for Advanced Psychiatric Nursing</td>
<td>3</td>
<td>NU</td>
<td>NUR</td>
<td>Examination of treatment modalities for advanced practice psychiatric nursing. Focus on theoretical and conceptual foundation for specialty practice with individuals, families, and groups.</td>
</tr>
<tr>
<td>NGR 6503L</td>
<td>Practicum III: Advanced Psychiatric Mental Health Nursing</td>
<td>3</td>
<td>NU</td>
<td>NUR</td>
<td>Clinical experience in advanced psychiatric mental health nursing that focuses on individual, group, family, and community interventions with culturally diverse populations.</td>
</tr>
<tr>
<td>NGR 6504</td>
<td>Practicum III: Advanced Psychiatric Mental Health Nursing</td>
<td>3</td>
<td>NU</td>
<td>NUR</td>
<td>Field experience in a variety of community settings with culturally diverse psychiatric/mental health populations. Emphasis on implementing prevention and intervention strategies with individuals, group, families and communities (1:6 ratio).</td>
</tr>
<tr>
<td>NGR 6511</td>
<td>Geropsychiatric Nursing</td>
<td>3</td>
<td>NU</td>
<td>CI</td>
<td>Focuses on theoretical implications and foundations for providing geropsychiatric nursing care for the elderly who have been diagnosed or have potential emotional/mental problems with emphasis of various therapies in a variety of clinical settings. (CI)</td>
</tr>
<tr>
<td>NGR 6538</td>
<td>Psychopharmacology</td>
<td>2</td>
<td>NU</td>
<td>NUR</td>
<td>Theoretical basis for psychopharmacological interventions with clients including pharmacokinetics and clinical management.</td>
</tr>
<tr>
<td>NGR 6617</td>
<td>Practicum in Family Centered Nursing</td>
<td>1-6</td>
<td>NU</td>
<td>NUR</td>
<td>Focuses on the development of clinical competencies necessary for the advanced practice nurse of function as a family nurse practitioner (1:6 ratio). (CI)</td>
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<tr>
<td>NGR 6620</td>
<td>Strategies for Community Health Nursing</td>
<td>3</td>
<td>NU NUR</td>
<td>Examines the variables that influence and guide community health nursing practice, and the application of relevant nursing concepts and theories.</td>
<td></td>
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<tr>
<td>NGR 6634</td>
<td>Primary Care of Child Bearing Families</td>
<td>2</td>
<td>NU NUR</td>
<td>PR: NGR6140 NGR 6001, CI. This course focuses on health promotion, health maintenance, differential diagnosis and management of common acute and chronic problems of child bearing families. Emphasis is on the specialized knowledge necessary to provide primary care to this population.</td>
<td></td>
</tr>
<tr>
<td>NGR 6650</td>
<td>Occupational Health Nursing I</td>
<td>2</td>
<td>NU NUR</td>
<td>CI. Primary care of the worker relative to health promotion/risk reduction/acute injuries/chronic conditions, assessment of the workplace and needs of worker aggregates, and planning for health services relative to worker lifestyles and risk factors.</td>
<td></td>
</tr>
<tr>
<td>NGR 6650L</td>
<td>Clinical Experiences In Occupational Health Nursing I</td>
<td>1</td>
<td>NU NUR</td>
<td>CI. Clinical experiences at selected worksites to apply content from NGR 6650 Occupational Health Nursing with an emphasis on analysis of the workplace and worker aggregates, occupational health nurse(s) roles/functions.</td>
<td></td>
</tr>
<tr>
<td>NGR 6651</td>
<td>Occupational Health Nursing II</td>
<td>2</td>
<td>NU NUR</td>
<td>CI. Focuses on the analysis of clinical strategies (e.g. triage, biological monitoring) relevant to advanced occupational health programs, medical surveillance programs, and worker's compensation managed care.</td>
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<tr>
<td>NGR 6651L</td>
<td>Clinical Experiences in Occupational Health II</td>
<td>1</td>
<td>NU NUR</td>
<td>CI. Clinical experiences relative to the application of content in NGR 6650 Occupational Health Nursing II with a focus on workplace assessment utilizing a comprehensive instrument and evaluation of worker's compensation managed care programs.</td>
<td></td>
</tr>
<tr>
<td>NGR 6700</td>
<td>Advanced Practice Nurse Transitions</td>
<td>2</td>
<td>NU NUR</td>
<td>The summative process for students to design and develop their roles as an Advanced Practice Nurses (APN). It provides an opportunity for integrating knowledge with clinical skills to support a clinical specialty as well as negotiating and marketing this role in the professional community.</td>
<td></td>
</tr>
<tr>
<td>NGR 6700L</td>
<td>APN Transitions Practicum</td>
<td>3</td>
<td>NU NUR</td>
<td>CR: NGR 6700. Clinical concentration in the intended area of practice for the graduating Advanced Practice Nurse (APN). Focus on applying integrated knowledge to provide collaborative comprehensive care. By Permit Only.</td>
<td></td>
</tr>
<tr>
<td>NGR 6710</td>
<td>Principles of Nursing Education</td>
<td>3</td>
<td>NU NUR</td>
<td>CI. Focuses on the philosophical, theoretical and evidence-based approaches for the development, implementation, and evaluation of educational programs. Emphasis on curriculum development, classroom/clinical teaching methodologies, and outcomes evaluation.</td>
<td></td>
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<tr>
<td>NGR 6723</td>
<td>Applied Management in Nursing and Healthcare</td>
<td>3</td>
<td>NU NUR</td>
<td>PR: CI. Applied management of human and financial resources to achieve quality and enhance healthcare outcomes in nursing. Focus on qualifying processes of care and outcomes using quality improvement approaches and sound management principles.</td>
<td></td>
</tr>
<tr>
<td>NGR 6726</td>
<td>Managing Healthcare Resources</td>
<td>3</td>
<td>NU NUR</td>
<td>PR: CI. Managing human and financial resources to achieve quality outcomes and enhance health care services. Focus on quantifying processes of care and outcomes and on the continuous improvement of quality in health care program delivery.</td>
<td></td>
</tr>
<tr>
<td>NGR 6730</td>
<td>Organization Theory and Leadership in Healthcare</td>
<td>3</td>
<td>NU NUR</td>
<td>PR: CI. Rule preparation for the healthcare manager, leader and change agent. Synthesis of concepts from organizational theory and behavior, change management, and principles of healthcare leadership as a basis for role effectiveness.</td>
<td></td>
</tr>
<tr>
<td>Course Code</td>
<td>Course Title</td>
<td>Credits</td>
<td>Department</td>
<td>Prerequisites/Notes</td>
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</tr>
<tr>
<td>NGR 6734</td>
<td>Healthcare Systems Leadership Seminar</td>
<td>2</td>
<td>NU, NUR</td>
<td>This seminar course provides experiences to analyze theoretical issues in nursing and healthcare leadership roles. Provides an opportunity to integrate leadership and human relationship skills in health systems management.</td>
<td></td>
</tr>
<tr>
<td>NGR 6735</td>
<td>Applied Organizational Theory in Nursing and Healthcare</td>
<td>3</td>
<td>NU, NUR</td>
<td>Synthesis of concepts from organizational theory and behavior; change management and principles of healthcare leadership as a basis for effectiveness in nursing management.</td>
<td></td>
</tr>
<tr>
<td>NGR 6790</td>
<td>Consultation Liaison Nursing</td>
<td>3</td>
<td>NU, NUR</td>
<td>Emphasizes evolution of the consultation/liaison role for advanced nurse practitioners with emphasis on the consultation process in a variety of clinical settings.</td>
<td></td>
</tr>
<tr>
<td>NGR 6800</td>
<td>Nursing Research</td>
<td>3</td>
<td>NU, NUR</td>
<td>Research designs and methods for nursing with primary emphasis on these topics: critique of research studies, researchable problems, research designs, instruments and other data collection methods, approaches to data analyses using computer applications, and preparation of research proposals for thesis, directed research, or funded research.</td>
<td></td>
</tr>
<tr>
<td>NGR 6821</td>
<td>Applied Analysis for Outcomes Research Using Large Healthcare Databases</td>
<td>3</td>
<td>NU, NUR</td>
<td>Focus on knowledge discovery in clinical domains by exploring large nursing and healthcare databases for the purposes of outcomes research or quality improvement. Emphasis on theoretical models and methods of analysis, providing experimental computer applications with large healthcare databases.</td>
<td></td>
</tr>
<tr>
<td>NGR 6822</td>
<td>Measurement for Nursing Education and Research</td>
<td>3</td>
<td>NU, NUR</td>
<td>Course purposes are to increase skill in measurement of nursing variables as part of the research process, to enhance ability of nurse educators to identify or develop valid and reliable measurement instruments for evaluation of students, clients and educational programs.</td>
<td></td>
</tr>
<tr>
<td>NGR 6831</td>
<td>Data Analysis for Health Sciences</td>
<td>3</td>
<td>NU, NUR</td>
<td>This course is designed to provide the graduate student interested in health sciences research with practical experience using SPSS for Windows and Microsoft's Excel programs to manage, organize, analyze and present both primary and secondary data in biophysical sciences.</td>
<td></td>
</tr>
<tr>
<td>NGR 6872</td>
<td>Clinical Systems Applications and Management</td>
<td>3</td>
<td>NU, NUR</td>
<td>Advanced informatics course with emphasis on application in healthcare informatics and clinical systems in nursing. Focus on design, implementation and analysis of informatics technologies in healthcare, nomenclatures and classification systems, health care documentation, integrated electronic patient records, and web-based technologies, patient care and patient safety.</td>
<td></td>
</tr>
<tr>
<td>NGR 6905</td>
<td>Independent Study</td>
<td>1-6</td>
<td>NU, NUR</td>
<td>Specialized individualized study determined by students' needs and interests; requires an approved contract with a faculty member. (CI)</td>
<td></td>
</tr>
<tr>
<td>NGR 6915</td>
<td>Directed Research</td>
<td>1-3</td>
<td>NU, NUR</td>
<td>Builds on knowledge gained in NGR 6800 and specialty concentration by participating in a research project under the direction of selected faculty. (CI)</td>
<td></td>
</tr>
<tr>
<td>NGR 6930</td>
<td>Research Seminar in Hospice and Palliative Care</td>
<td>3</td>
<td>NU, NUR</td>
<td>Focus on analysis of contemporary research issues in palliative care and end of life with special emphasis on design, sampling, statistical analysis and measurement problems common to research in the area.</td>
<td></td>
</tr>
<tr>
<td>NGR 6931</td>
<td>Selected Topics</td>
<td>1-4</td>
<td>NU, NUR</td>
<td>Seminars for the analysis and discussion of selected issues in nursing of topical concern to student and faculty.</td>
<td></td>
</tr>
<tr>
<td>Course Code</td>
<td>Course Title</td>
<td>Units</td>
<td>Type</td>
<td>Prerequisites</td>
<td>Description</td>
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<tr>
<td>NGR 6944</td>
<td>Practicum in Acute Care Nursing</td>
<td>1-9</td>
<td>NU</td>
<td>NUR</td>
<td>PR: NGR 6143, NGR 6333 or NGR 6232, CI. Clinical experiences in critical care settings focusing on the role of the advanced practice nurse (1:4 ratio).</td>
</tr>
<tr>
<td>NGR 6947</td>
<td>Practicum in Nursing Education</td>
<td>2-4</td>
<td>NU</td>
<td>NUR</td>
<td>PR: NGR 6822, NGR 6710, NGR 6712, CI. Instructional experiences that utilize educational concepts and instructional strategies in a variety of educational settings in nursing. (CI)</td>
</tr>
<tr>
<td>NGR 6949</td>
<td>Oncology Nursing Practicum</td>
<td>1-9</td>
<td>NU</td>
<td>CI</td>
<td>Requires synthesis of all knowledge and skills acquired earlier in the program. Emphasis is on the role of the oncology nurse specialist, including those of expert clinician, consultant, teacher, researcher and administrator.</td>
</tr>
<tr>
<td>NGR 6950</td>
<td>Capstone Course</td>
<td>3</td>
<td>NU</td>
<td>NUR</td>
<td>PR: Completion of 50% of academic program, and NGR 6212 and NGR 6800. This course focuses on the development of a scholarly manuscript of publishable quality to a selected publisher’s standards on a topic selected by the student.</td>
</tr>
<tr>
<td>NGR 6971</td>
<td>Thesis</td>
<td>2-19</td>
<td>NU</td>
<td>NUR</td>
<td>PR: NGR 6800, CI. Focus on history and philosophy of science: history and development of nursing's scientific knowledge base and theoretical progress. Emphasis methods of theory building and theory testing through research. Explore progress in middle range theories and areas of high priority for additional research for the discipline.</td>
</tr>
<tr>
<td>NGR 7124</td>
<td>Advances in Nursing Science</td>
<td>3</td>
<td>NU</td>
<td>NUR</td>
<td>PR: Admission to doctoral program or consent of instructor. Examines knowledge and skills necessary for an academic role in nursing. Emphasis on models for socialization into an academic role including teaching, research, service and practice. Explore new paradigms and technologies for teaching-learning.</td>
</tr>
<tr>
<td>NGR 7705</td>
<td>Academic Citizenship in Nursing</td>
<td>3</td>
<td>NU</td>
<td>NUR</td>
<td>PR: NGR 6800. An overview of qualitative research methods in nursing, identification of problems appropriate for qualitative research methods, and application of appropriate qualitative research methods to a researchable problem.</td>
</tr>
<tr>
<td>NGR 7815</td>
<td>Qualitative Research Methods in Nursing</td>
<td>3</td>
<td>NU</td>
<td>NUR</td>
<td>PR: NGR 7841, NGR 7842, and NGR 7811 Focus on designs used in nursing research to test or develop theoretical models, or concepts, including clinical or outcome variables, or hypotheses. Emphasis on quantitative designs.</td>
</tr>
<tr>
<td>NGR 7823</td>
<td>Psychometrics and Measurement for Nursing Research</td>
<td>3</td>
<td>NU</td>
<td>NUR</td>
<td>PR: NGR 7841, NGR 7842, and NGR 7811 Explores issues in developing, testing, and applying measurement theory in research. Analysis of psychometric properties of instruments and methods appropriate to theoretical and conceptual demands of science.</td>
</tr>
<tr>
<td>NGR 7841</td>
<td>Statistical Methods in Nursing Research I</td>
<td>3</td>
<td>NU</td>
<td>NUR</td>
<td>PR: NGR 6800 or equivalent and statistics. Standard parametric and nonparametric statistical methods in nursing research; role of assumptions and theory in selecting the appropriate statistic for testing hypotheses/research questions. Emphasis on analysis of variance and simple linear regression. Statistical software applications are integrated into the course.</td>
</tr>
<tr>
<td>NGR 7842</td>
<td>Statistical Methods in Nursing Research II</td>
<td>3</td>
<td>NU</td>
<td>NUR</td>
<td>PR: NGR 7841. Focus on advanced multivariate methods in nursing research: regression (linear, multiple, logistic) and multiple analysis of variance (MANOVA) and covariance software applications are integrated into the course.</td>
</tr>
<tr>
<td>NGR 7910</td>
<td>Concepts in Nursing Practice</td>
<td>3</td>
<td>NU</td>
<td>NUR</td>
<td>PR: NGR 7841. Emphasis on analysis of phenomena (concepts) that impact on nursing practice. Phenomena are selected and analyzed from theoretical and research perspectives.</td>
</tr>
</tbody>
</table>
### NGR 7911 Esthetics and Ethics in Nursing and Health Care
3 NU NUR
Explores issues and research in esthetics (carative factors-art of healing) and ethics in advanced practice. Focuses on use of alternative approaches to healing and application of ethical decision making models to complex health care issues.

### NGR 7912 Health Policy Issues in Nursing and Health Care
5 NU NUR PR: NGR 7841 and NGR 7842 or CI.
Use of data bases to develop approaches for decision making, policy formulation and outcome evaluation. Focus on policy analysis, agenda setting, and factors affecting nursing and health care policy.

### NGR 7940 Advanced Clinical Research Pro Seminar
1-6 NU NUR PR: NGR 7910.
The clinical arena provides the research laboratory to explore clinical or management problems. Students are matched with a mentor who has expertise in the student's selected area of study.

### NGR 7941 Nursing Research Pro Seminar
1-6 NU NUR PR: Nursing Knowledge Systems and Issues in Knowledge Dissemination.
The Pro Seminar provides experiential opportunities for students to test innovative methods and technologies in a variety of educational or clinical settings. Seminars designed to critique current research in the area.

### NGR 7980 Dissertation Research
2-6 NU NUR PR: Admission to candidacy.
Directed research and writing of dissertation topic appropriate to the discipline.

### OCB 6050 Biological Oceanography
3 MS MSC PR: GS or CI.
Study of life in the oceans, its rates and processes, and its interaction with the physical and chemical environment. Lec.

### OCB 6567 Phytoplankton Ecology
3 MS MSC PR: B.S. in Biology, OCB 6050, or CI.
An introduction to the physiology and ecology of marine phytoplankton. Emphasis will be on those variables and interactions that regulate photosynthesis, production, nutrient kinetics, and regeneration, growth, spatial distribution, losses, and succession.

### OCB 6646 Marine Zoogeography
3 MS MSC PR: B.S. in Biology, OCB 6050, or CI.
The geographical distribution of animals in the marine environments of the world including the major habitats of the benthic and pelagic realms. Studies of the relationships between distribution and evolutionary patterns.

### OCB 6666 Ecological Physiology
3 MS MSC PR: B.S. in Biology, 1 year general and Organic Chemistry, OCB 6050, or CI.
The study of those physiological mechanisms that enable organisms to live in their environment, and deal with changes in the environment. Coursework is focused on aquatic ecosystems. Topics include osmotic and ionic regulation, nitrogen excretion, feeding and digestion, respiration, temperature, and energetics. Lab separate.

### OCB 6671 Methods in Biological Oceanography
1 MS MSC PR: CI.
To acquaint students with field and laboratory equipment and techniques currently used in Biological Oceanography. Emphasis will be on field problems, especially those requiring research at sea.

### OCB 6931C Special Topics in Ichthyology
1-3 MS MSC PR: GS or CC. S/U only.
Presentation and discussion of ichthyological topics from the primary literature. The objectives of this course are: 1) to review and discuss the primary literature on ichthyological topics, both current and historical; 2) to provide a forum in which students can develop discussion skills; 3) to identify, through examination of the literature, areas of needed research; 4) to provide means by which graduate students can receive formal course instruction in a non-lecture format.

### OCC 6050 Chemical Oceanography
3 MS MSC PR: CHM 2046 and GS or CI.
The ocean as a chemical system, including composition, physical-chemical aspects, role of nutrients, trace metals, interaction between bottom and overlying water, organic matter, and stable and radioactive isotopes. Lec.
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
<th>Type</th>
<th>Prerequisites</th>
</tr>
</thead>
<tbody>
<tr>
<td>OCC 6057</td>
<td>Methods in Chemical Oceanography</td>
<td>1</td>
<td>MS</td>
<td>MSC PR: OCC 6050 or CI.</td>
</tr>
<tr>
<td>OCC 6067</td>
<td>Marine Pollution</td>
<td>3</td>
<td>MS</td>
<td>MSC PR: OCC 6050 or CI.</td>
</tr>
<tr>
<td>OCC 6111C</td>
<td>Applications of Gas Chromatography and Mass Spectrometry in Marine Science</td>
<td>3</td>
<td>MS</td>
<td>MSC PR: OCC 6050 and CI.</td>
</tr>
<tr>
<td>OCC 6216</td>
<td>Marine Organic Chemistry</td>
<td>3</td>
<td>MS</td>
<td>MSC PR: B.S. in Biology or Chemistry, Biochemistry, OCC 6050 or CI.</td>
</tr>
<tr>
<td>OCC 6418</td>
<td>Petroleum Geochemistry</td>
<td>3</td>
<td>MS</td>
<td>MSC PR: OCC 6050 or CI.</td>
</tr>
<tr>
<td>OCE 6908</td>
<td>Independent Study</td>
<td>1-10</td>
<td>MS</td>
<td>MSC S/U.</td>
</tr>
<tr>
<td>OCE 6934</td>
<td>Selected Topics in Oceanography</td>
<td>1-3</td>
<td>MS</td>
<td>MSC PR: CL</td>
</tr>
<tr>
<td>OCE 6939</td>
<td>Graduate Seminar in Oceanography</td>
<td>1</td>
<td>MS</td>
<td>MSC PR: GS. S/U.</td>
</tr>
<tr>
<td>OCE 6971</td>
<td>Thesis: Master's</td>
<td>2-19</td>
<td>MS</td>
<td>MSC PR: CC, GR, ML. S/U.</td>
</tr>
<tr>
<td>OCE 6972</td>
<td>Directed Research</td>
<td>1-19</td>
<td>MS</td>
<td>MSC PR: GR. ML. CI. S/U.</td>
</tr>
<tr>
<td>OCE 7910</td>
<td>Directed Research</td>
<td>1-19</td>
<td>MS</td>
<td>MSC PR: GR. Ph.D. level, CI. S/U.</td>
</tr>
<tr>
<td>OCE 7980</td>
<td>Dissertation: Doctoral</td>
<td>2-19</td>
<td>MS</td>
<td>MSC PR: Admission to Candidacy, CC. S/U.</td>
</tr>
</tbody>
</table>

**OCC 6057** Methods in Chemical Oceanography: An intensive study of the use and limitations of field and laboratory equipment that is a standard part of chemical oceanographic research into the behavior of dissolved and particulate constituents in seawater.

**OCC 6067** Marine Pollution: Marine pollutant sources, reservoirs, transport processes, and dynamics. Topics include heavy metals, chlorinated hydrocarbons, radioactivity, petroleum, pathogens, and thermal pollution including functional and physiological responses of marine organisms.

**OCC 6111C** Applications of Gas Chromatography and Mass Spectrometry in Marine Science: Analytical techniques of high resolution gas chromatography and combined gas chromatography-mass spectrometry are applied to problems in Marine Science. Theoretical aspects of the techniques are covered in lectures, while detailed experimental procedures are taught and practiced in the laboratory.

**OCC 6216** Marine Organic Chemistry: Distribution and biogeochemical cycling of organic matter in the oceans. Topics include carbohydrates, proteins, lipids, humics, pheromones, interaction with trace metals, isotopic fractionation, microbial alterations, and biochemical tracers.

**OCC 6418** Petroleum Geochemistry: An investigation of the geochemical aspects of petroleum generation, migration, accumulation, and maturation. Additional topics include the composition of petroleum, the use of molecular biomarkers to investigate petrochemical and geochemical processes, and petroleum prospecting.

**OCE 6908** Independent Study: Independent study in which students must have a contract with an instructor.

**OCE 6934** Selected Topics in Oceanography: Special topics in Biological, Chemical, Geological, and Physical Oceanography.

**OCE 6939** Graduate Seminar in Oceanography: Special topics in Biological, Chemical, Geological, and Physical Oceanography.

**OCE 6971** Thesis: Master's: Special topics in Biological, Chemical, Geological, and Physical Oceanography.

**OCE 6972** Directed Research: Special topics in Biological, Chemical, Geological, and Physical Oceanography.

**OCE 7910** Directed Research: Special topics in Biological, Chemical, Geological, and Physical Oceanography.

**OCE 7980** Dissertation: Doctoral: Special topics in Biological, Chemical, Geological, and Physical Oceanography.
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
<th>Type</th>
<th>Minimum Semester Course</th>
<th>Prerequisites</th>
</tr>
</thead>
<tbody>
<tr>
<td>OCG 6051</td>
<td>Geological Oceanography</td>
<td>3</td>
<td>MS</td>
<td>MSC</td>
<td>PR: GS or CI.</td>
</tr>
<tr>
<td>OCG 6075</td>
<td>Methods in Geological Oceanography</td>
<td>1</td>
<td>MS</td>
<td>MSC</td>
<td>PR: OCG 6051 or CI.</td>
</tr>
<tr>
<td>OCG 6080</td>
<td>Plate Tectonics</td>
<td>3</td>
<td>MS</td>
<td>MSC</td>
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</tr>
<tr>
<td>OCG 6086</td>
<td>Geology of Continental Margins</td>
<td>3</td>
<td>MS</td>
<td>MSC</td>
<td>PR: B.S. in Geology, OCG 6051, or CI.</td>
</tr>
<tr>
<td>OCG 6356C</td>
<td>Stratigraphic Interpretation of Seismic Data</td>
<td>3</td>
<td>MS</td>
<td>MSC</td>
<td>PR: B.S. in Geology, OCG 6051, or CI.</td>
</tr>
<tr>
<td>OCG 6453</td>
<td>Geochemistry Marine Sediments</td>
<td>3</td>
<td>MS</td>
<td>MSC</td>
<td>PR: BA in Chemistry or Geology or CI.</td>
</tr>
<tr>
<td>OCG 6455</td>
<td>Marine Isotope Geochemistry</td>
<td>3</td>
<td>MS</td>
<td>MSC</td>
<td>PR: Chemical Oceanography or CI.</td>
</tr>
<tr>
<td>OCG 6551C</td>
<td>Scanning Electron Microscopy: Theory and Technique</td>
<td>4</td>
<td>MS</td>
<td>MSC</td>
<td>PR: One year Physics and Chemistry or CC. Full time graduate students in the department of Marine Science are not required to obtain an individual permit. All other graduate and undergraduate students should obtain a permit.</td>
</tr>
<tr>
<td>OCG 6656C</td>
<td>Marine Micropaleontology</td>
<td>3</td>
<td>MS</td>
<td>MSC</td>
<td>PR: B.S. in Geology or Biology, OCG 6051, or CI.</td>
</tr>
<tr>
<td>OCG 6664</td>
<td>Paleoceanography</td>
<td>3</td>
<td>MS</td>
<td>MSC</td>
<td>PR: OCB 6050, OCC 6050, OCG 6051, and OCP 6050, or CI.</td>
</tr>
<tr>
<td>OCG 6666</td>
<td>Carbonate Depositional Systems</td>
<td>3</td>
<td>MS</td>
<td>MSC</td>
<td>PR: BA in Geology or CI.</td>
</tr>
<tr>
<td>Course Code</td>
<td>Course Title</td>
<td>Credits</td>
<td>Prerequisites</td>
<td>Description/description</td>
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<tr>
<td>OCG 6668</td>
<td>Evolution and Ecology of Reefs</td>
<td>3</td>
<td>MS MSC</td>
<td>Advanced course in ecology and evolution of reef communities. Topics include environmental controls on reef development, basic components of modern reef communities, and how those components have changed through geologic time.</td>
<td></td>
</tr>
<tr>
<td>OCP 6050</td>
<td>Physical Oceanography</td>
<td>3</td>
<td>MS MSC</td>
<td>The world ocean including its morphology, physical properties, currents, waves, tides, heat and water budgets, and related topics. Lec.</td>
<td></td>
</tr>
<tr>
<td>ORI 6435</td>
<td>Performance as Cultural Study</td>
<td>3</td>
<td>AS SPE</td>
<td>Impact of performance and performance forms as cultural communication. The course examines literary, festive, religious, political and social performance in dialogue with culture.</td>
<td></td>
</tr>
<tr>
<td>ORI 6930</td>
<td>Communication Aesthetics</td>
<td>3</td>
<td>AS SPE</td>
<td>This course examines the historical evolution of the aesthetic dimension of communication as performance in terms of major concepts and theorists from Plato to the present.</td>
<td></td>
</tr>
<tr>
<td>ORI 7930</td>
<td>Seminar in Performance Studies</td>
<td>3</td>
<td>AS SPE</td>
<td>Variable topics course.</td>
<td></td>
</tr>
<tr>
<td>PAD 6041</td>
<td>Ethics and Public Service</td>
<td>3</td>
<td>AS PAD</td>
<td>The purpose of this course is to provide students with an understanding of the ethical dimensions of public service, with particular attention focused on the role, duties and responsibilities of the public administrator. Additionally, the course seeks to help students develop awareness, skill, and value framework to act ethically in their public service and management roles.</td>
<td></td>
</tr>
<tr>
<td>PAD 6056</td>
<td>Practice of Public Management</td>
<td>3</td>
<td>AS PAD</td>
<td>An integrative course applying the skills, knowledge, and values taught in the core curriculum and applied to public issues or problems.</td>
<td></td>
</tr>
<tr>
<td>PAD 6060</td>
<td>Public Administration Theory</td>
<td>3</td>
<td>AS PAD</td>
<td>Examination of major theoretical and practical developments in public administration with focus on organization theory and current research trends in the field.</td>
<td></td>
</tr>
<tr>
<td>PAD 6105</td>
<td>Public Organizations and Change</td>
<td>3</td>
<td>AS PAD</td>
<td>Introduction to problems, diagnosis, strategies, and methodology of changing public organizations.</td>
<td></td>
</tr>
<tr>
<td>PAD 6134</td>
<td>Project Management</td>
<td>3</td>
<td>AS PAD</td>
<td>Course is designed to introduce students to the concepts, theories, principles, and practices in project management, as well as to the use of project management software.</td>
<td></td>
</tr>
<tr>
<td>PAD 6205</td>
<td>Financial Oversight for Nonprofit Organizations</td>
<td>3</td>
<td>AS PAD</td>
<td>Introduce the non-financial manager to financial information used to make decisions for nonprofit organizations. Students will learn how to use the principles of financial management to make operating and capital budgeting decisions and to analyze long-term financial options.</td>
<td></td>
</tr>
<tr>
<td>PAD 6207</td>
<td>Public Financial Administration</td>
<td>3</td>
<td>AS PAD</td>
<td>Examination of the fiscal organization of federal, state, and local governments. Current problems in budgeting, revenue, and indebtedness are considered.</td>
<td></td>
</tr>
<tr>
<td>PAD 6222</td>
<td>Issues in Florida--Budgeting and Finance</td>
<td>3</td>
<td>AS PAD</td>
<td>Selected issues in public financial management and budgeting related to state agencies or local governments in Florida.</td>
<td></td>
</tr>
<tr>
<td>Course Code</td>
<td>Course Title</td>
<td>Credits</td>
<td>Offered In</td>
<td>Prerequisites</td>
<td>Description</td>
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<td>PAD 6227</td>
<td>Public Budgeting</td>
<td>3</td>
<td>AS</td>
<td>PAD</td>
<td>Development, authorization, execution, and assessment of government budgets. Topics include current trends and issues in budget theory and practice, as well as reform efforts.</td>
</tr>
<tr>
<td>PAD 6275</td>
<td>Political Economy for Public Managers</td>
<td>3</td>
<td>AS</td>
<td>PAD</td>
<td>Introduces students to the fundamental concepts, theories, principles and tools used in public sector managerial economics. Students will be using economic concepts and applying economic tools and techniques to address common issues faced by public managers.</td>
</tr>
<tr>
<td>PAD 6307</td>
<td>Policy Analysis and Program Evaluation</td>
<td>3</td>
<td>AS</td>
<td>PAD</td>
<td>An introduction to analyzing public problems and program development. Emphasis is placed on the methodological tools for analyzing public problems, and criteria to assess the value of programs in addressing public problems.</td>
</tr>
<tr>
<td>PAD 6335</td>
<td>Strategic Planning for Public and Nonprofit</td>
<td>3</td>
<td>AS</td>
<td>PAD</td>
<td>Emphasizes methods of strategic planning as tools to lead, strengthen, and develop public and nonprofit organizations.</td>
</tr>
<tr>
<td>PAD 6336</td>
<td>Community Development Programs and Strategies</td>
<td>3</td>
<td>AS</td>
<td>PAD</td>
<td>Discusses community development principles and practices in historical and contemporary perspectives, federal, state and local initiatives, physical, social, and economic approaches to community development.</td>
</tr>
<tr>
<td>PAD 6338</td>
<td>Urban Land Use and Policy Administration</td>
<td>3</td>
<td>AS</td>
<td>PAD</td>
<td>Focuses on the political, economic, and legal environment of urban land development. Examines public policies affecting the spatial distribution of urban land activities, overt and covert rationales of such policies; zoning, subdivision regulations, building codes, and other urban land use control measures.</td>
</tr>
<tr>
<td>PAD 6339</td>
<td>Housing and Public Policy</td>
<td>3</td>
<td>AS</td>
<td>PAD</td>
<td>Explores housing policy in the broader context of public policy. Examination of housing market theories and the relationships between housing and city and regional planning.</td>
</tr>
<tr>
<td>PAD 6355</td>
<td>Urban Growth Management</td>
<td>3</td>
<td>AS</td>
<td>PAD</td>
<td>Examines the political economy of controlling the growth and development of human settlements, regulatory and non-regulatory techniques of growth management, and the evolution of growth management practices in the U.S.</td>
</tr>
<tr>
<td>PAD 6417</td>
<td>Human Resources Management</td>
<td>3</td>
<td>AS</td>
<td>GS or Sr.</td>
<td>A study of the major functions in public personnel, including recruiting, selection, testing, training, and development, and employee and human relations in the public service.</td>
</tr>
<tr>
<td>PAD 6427</td>
<td>Public Sector Labor Relations</td>
<td>3</td>
<td>AS</td>
<td>PAD</td>
<td>Introduction to the historical, legal, political and procedural aspects of collective bargaining and labor relations in the public sector organizations. Address methods for resolving conflicts and grievances.</td>
</tr>
<tr>
<td>PAD 6703</td>
<td>Quantitative Aids for Public Managers</td>
<td>3</td>
<td>AS</td>
<td>PAD</td>
<td>Techniques and models used in analyzing managerial/policy problems. Generate descriptive, inferential and associational statistics, evaluate alternate policy and decision options, and make recommendations.</td>
</tr>
<tr>
<td>PAD 6710</td>
<td>Public Information Management</td>
<td>3</td>
<td>AS</td>
<td>PAD</td>
<td>Intro to policy issues related to managing public info. by non-technical public &amp; nonprofit managers. Non-tech. manager’s role with strategic tech. planning, process re-engineering, appl. dev., data admin., procurement, security, public access, Internet.</td>
</tr>
<tr>
<td>PAD 6907</td>
<td>Independent Study</td>
<td>1-3</td>
<td>AS</td>
<td>PR: CI. S/U.</td>
<td>A flexible format for conceptual or theoretical studies in public administration.</td>
</tr>
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<td>Course Code</td>
<td>Course Title</td>
<td>Credits</td>
<td>Department</td>
<td>Prerequisites</td>
<td>Description</td>
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<tr>
<td>PAD 6909</td>
<td>Problem Report</td>
<td>3</td>
<td>PAD</td>
<td>Majors only.</td>
<td>Analysis of a significant administrative or policy problem facing a public agency or manager.</td>
</tr>
<tr>
<td>PAD 6915</td>
<td>Directed Research</td>
<td>1-3</td>
<td>PAD</td>
<td>PR: CI. S/U.</td>
<td>A flexible format for structured field research in Public Administration.</td>
</tr>
<tr>
<td>PAD 6934</td>
<td>Selected Topics in Public Administration</td>
<td>1-3</td>
<td>PAD</td>
<td></td>
<td>A flexible format to offer specialized courses not available within the regular curriculum.</td>
</tr>
<tr>
<td>PAD 6946</td>
<td>Internship in Public Administration</td>
<td>2-6</td>
<td>PAD</td>
<td>PR: CI. Majors only. S/U</td>
<td>Structured learning and work experience in a public agency or non-profit organization.</td>
</tr>
<tr>
<td>PCB 6107</td>
<td>Advanced Cell Biology</td>
<td>4</td>
<td>BIO</td>
<td>PR: CI.</td>
<td>Detailed examination of the structure, function and molecular biology of eukaryotic cells.</td>
</tr>
<tr>
<td>PCB 6236</td>
<td>Advanced Immunology</td>
<td>4</td>
<td>BIO</td>
<td>PR: CI.</td>
<td>A broad introduction to the biochemistry of plant and animal interactions. Emphasis on the roles of secondary metabolites such as alkaloids, flavonoids, and terpenes in the complex animal/animal, animal/plant, plant/plant, and plant/microorganism interactions occurring in natural, terrestrial, and aquatic environments. Lec/Lab.</td>
</tr>
<tr>
<td>PCB 6405</td>
<td>Chemical Ecology</td>
<td>3</td>
<td>BIO</td>
<td>PR: PCB 3043 and CHM 2211.</td>
<td>Introduction to population dynamics with emphasis on the ecological components of growth, competition, and perdition.</td>
</tr>
<tr>
<td>PCB 6426C</td>
<td>Population Biology</td>
<td>3</td>
<td>BIO</td>
<td>PR: GS, CI.</td>
<td>In-depth examination of community ecology with emphasis on diversity, stability, trophic structure and the mechanisms which affect how communities are structured.</td>
</tr>
<tr>
<td>PCB 6447</td>
<td>Community Ecology</td>
<td>3</td>
<td>BIO</td>
<td>PR: CI.</td>
<td>Introduction to exploratory data analysis in ecology. Techniques for dealing with encountered data are emphasized.</td>
</tr>
<tr>
<td>PCB 6455</td>
<td>Statistical Ecology</td>
<td>3</td>
<td>BIO</td>
<td>PR: CI.</td>
<td>An introduction to statistical procedures for research in biological sciences. Experimental design, analysis of data, and presentation of results are emphasized. Lec./Dis.</td>
</tr>
<tr>
<td>PCB 6456C</td>
<td>Biometry</td>
<td>4</td>
<td>BIO</td>
<td>PR: MAC 2241 and MAC 2244, GS.</td>
<td>Fundamental concepts in the design of experiments for biological research. Factorial experiments, multiple regression analyses, analyses of covariance and SAS computer programs are emphasized. Lec/Lab.</td>
</tr>
<tr>
<td>PCB 6458</td>
<td>Biometry II</td>
<td>3</td>
<td>BIO</td>
<td>PR: PCB 6456C.</td>
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<tr>
<td>Course Code</td>
<td>Course Title</td>
<td>Credits</td>
<td>Type</td>
<td>Prerequisite(s)</td>
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<tr>
<td>PCB 6920</td>
<td>Advances in Cell and Molecular Biology</td>
<td>1</td>
<td>AS</td>
<td>BIO PR: PCB 6107 or CI.</td>
<td></td>
</tr>
<tr>
<td>PCB 6933</td>
<td>Seminar In Ecology</td>
<td>1-3</td>
<td>AS</td>
<td>BIO PR: CI.</td>
<td></td>
</tr>
<tr>
<td>PET 6205</td>
<td>Psycho-Sociological Aspects of Human Movement</td>
<td>3</td>
<td>ED</td>
<td>EDP DPR.</td>
<td></td>
</tr>
<tr>
<td>PET 6396C</td>
<td>Specialized Study in Biomechanics of Human Movement</td>
<td>1-4</td>
<td>ED</td>
<td>EDP PR: CI. DPR.</td>
<td></td>
</tr>
<tr>
<td>PET 6419</td>
<td>Clinical Supervision In Physical Education</td>
<td>3</td>
<td>ED</td>
<td>EDP PR: Florida certificate in physical education, 3 years teaching experience in physical education, principal's recommendation. CI. DPR.</td>
<td></td>
</tr>
<tr>
<td>PET 6425</td>
<td>Curriculum and Instructional Process in Physical Education</td>
<td>3</td>
<td>ED</td>
<td>EDP PR: CI.</td>
<td></td>
</tr>
<tr>
<td>PET 6496</td>
<td>Specialized Study In Curriculum And Instructional Process In Physical Education</td>
<td>1-4</td>
<td>ED</td>
<td>EDP PR: CI. DPR.</td>
<td></td>
</tr>
<tr>
<td>PET 6535C</td>
<td>Professional Assessment</td>
<td>3</td>
<td>ED</td>
<td>EDP PR: CI. DPR.</td>
<td></td>
</tr>
<tr>
<td>PET 6645</td>
<td>Physical Education for Individuals with Disabilities</td>
<td>4</td>
<td>ED</td>
<td>EDP DPR.</td>
<td></td>
</tr>
<tr>
<td>PET 6695C</td>
<td>Physical Education for the Handicapped Practicum</td>
<td>2-4</td>
<td>ED</td>
<td>EDP PR: PET 6645 or DPR and CI.</td>
<td></td>
</tr>
<tr>
<td>PET 6906</td>
<td>Independent Study: Professional Physical Education</td>
<td>1-6</td>
<td>ED</td>
<td>S/U. PR: CI. DPR.</td>
<td></td>
</tr>
<tr>
<td>PET 6910L</td>
<td>Research Project in Physical Education</td>
<td>1-4</td>
<td>ED</td>
<td>PR: CI. DPR.</td>
<td></td>
</tr>
<tr>
<td>PGY 6108C</td>
<td>Photography</td>
<td>4</td>
<td>VP</td>
<td>ART PR: CI. Registration by contract only.</td>
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<tr>
<td>Course Code</td>
<td>Course Title</td>
<td>Credits</td>
<td>Department</td>
<td>Pre-Requisites</td>
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<tr>
<td>PHC 6006</td>
<td>Epidemiology of Diseases of Major Public Health Importance</td>
<td>3</td>
<td>PH</td>
<td>PR: PHC 6000, PHC 6050, and CI.</td>
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<td>EPB</td>
<td>A study of the distribution and determinants of specific infectious and non-infectious human diseases of public health importance using epidemiological methods.</td>
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<tr>
<td>PHC 6007</td>
<td>Cancer Epidemiology</td>
<td>3</td>
<td>PH</td>
<td>PR: PHC 6000 or CI.</td>
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<td>EPB</td>
<td>The course will consider the extent of the cancer problem, present the epidemiology of the major cancer sites, including those of the respiratory, digestive and reproductive systems, and evaluate the potential for primary and secondary preventive efforts.</td>
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</tr>
<tr>
<td>PHC 6008</td>
<td>Cardiovascular Disease Epidemiology</td>
<td>3</td>
<td>PH</td>
<td>PR: PHC 6000 or CI.</td>
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<td>EPB</td>
<td>A review of the major issues in cardiovascular disease epidemiology, including trends, the extent of the disease nationally and internationally, implications of major epidemiological studies, and strategies for prevention.</td>
<td></td>
</tr>
<tr>
<td>PHC 6017</td>
<td>Design and Conduct of Clinical Trials</td>
<td>3</td>
<td>PH</td>
<td>PR: PHC 6050, PHC 6000 and CI.</td>
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<td>EPB</td>
<td>The course will familiarize students with the issues in the design and conduct of clinical trials. Factors involved in organizing a trial, randomizing subjects, implementation, and analyzing data from the study will be considered.</td>
<td></td>
</tr>
<tr>
<td>PHC 6050</td>
<td>Biostatistics I</td>
<td>3</td>
<td>PH</td>
<td>PR: College Algebra or CI.</td>
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<td>EPB</td>
<td>Concepts, principles, and methods of statistics applied to public health issues.</td>
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<tr>
<td>PHC 6051</td>
<td>Biostatistics II</td>
<td>3</td>
<td>PH</td>
<td>PR: PHC 6000 and PHC 6050 or CI.</td>
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<td>EPB</td>
<td>Intermediate level statistical methods appropriate for health and epidemiological studies. Emphasis on 2x2 tables, analysis of variance, multiple linear regression, methods of survival analysis, logistic regression, and Cox regression.</td>
<td></td>
</tr>
<tr>
<td>PHC 6053</td>
<td>Categorical Data Analysis</td>
<td>3</td>
<td>PH</td>
<td>PR: PHC 6051 or CI.</td>
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<td>EPB</td>
<td>Study of techniques used in analyzing data where subjects have been cross-classified by two or more categorical variables. Special emphasis given to problems frequently arising in epidemiology, public health and medicine.</td>
<td></td>
</tr>
<tr>
<td>PHC 6057</td>
<td>Biostatistical Inference I</td>
<td>3</td>
<td>PH</td>
<td>PR: Undergraduate Calculus or Equivalent</td>
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<td>EPB</td>
<td>This course is primarily designed for students majoring in Biostatistics, emphasis is given to understanding and mastering of biostatistical theory and methods such as probability distribution, expectations, estimation and hypothesis testing.</td>
<td></td>
</tr>
<tr>
<td>PHC 6060</td>
<td>Biostatistical Case Studies and Consulting I</td>
<td>3</td>
<td>PH</td>
<td>PR: Entry into the Biostatistics Doctoral Program or CI.</td>
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<td>EPB</td>
<td>This course provides hands on experience in biostatistical consulting. Biostatistical methods and computer skills are presented, along with the skills required for participating in collaborative and consultative research roles. A Foundation for biostatistical consultation is presented, involving the goals, content, conduct and presentation of analytical results. Students apply these principles to at least one consultative project and one collaborative project.</td>
<td></td>
</tr>
<tr>
<td>PHC 6061</td>
<td>Biostatistical Case Studies and Consulting II</td>
<td>3</td>
<td>PH</td>
<td>PR: PHC 6060 or CI.</td>
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<td>EPB</td>
<td>This course prepares students to join an active biostatistical analyst of a multidisciplinary research groups. This collaborative role requires knowledge of successful grant writing and review, site visits, and formal presentations of analytical results. Special issues in collaborating research at a distance are discussed. The biostatistical methodology and theory pertaining to collaborative research projects chosen by the students covered in formal lectures.</td>
<td></td>
</tr>
<tr>
<td>PHC 6101</td>
<td>Health Care Organizations</td>
<td>3</td>
<td>HPM</td>
<td>PR: PHC 6102 or CI.</td>
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<tr>
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<td>This course presents an overview of principles in the design and structure of health care organizations and their relationship to the regulatory environment at the federal, state, and local levels.</td>
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<td>Course Code</td>
<td>Course Title</td>
<td>Credits</td>
<td>Prerequisites</td>
<td>Description</td>
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<tr>
<td>PHC 6102</td>
<td>Principles of Health Policy and Management</td>
<td>3</td>
<td>PH</td>
<td>HPM PR: CL. General principles of planning, management, evaluation, and behavior of public and private health care organizations at the local, state, and national levels.</td>
<td></td>
</tr>
<tr>
<td>PHC 6110</td>
<td>International Health and Health Care Systems</td>
<td>3</td>
<td>PH</td>
<td>HPM PR: CI. Study of global health problems and trends, translated to needs and demands; socio-economic and political impact on health delivery; prevailing international systems compared to U.S. system; the role of international health agencies.</td>
<td></td>
</tr>
<tr>
<td>PHC 6111</td>
<td>Global Primary Health Care Strategies</td>
<td>3</td>
<td>PH</td>
<td>HPM PR: PHC 6102 or CI. Addresses the rationale, planning and implementation of primary health care programs from an international perspective. Emphasis is given to primary care as an integral part of a health care system and an essential component of public health.</td>
<td></td>
</tr>
<tr>
<td>PHC 6116</td>
<td>International Health Education</td>
<td>3</td>
<td>PH</td>
<td>CFH PR: Graduate Status. This travel abroad course compares the practice and venues of health education as they occur in another country with those in the United States. Specific course location varies. Focus is on comparative assessment of individual and community health education needs, program planning, implementation, and evaluation, coordination and administration of programs, resource availability of programs, resource availability, health communication mechanisms, application of research principles, and status of the health education profession.</td>
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</tr>
<tr>
<td>PHC 6120</td>
<td>Community Partnerships and Advocacy</td>
<td>3</td>
<td>PH</td>
<td>CFH PR: Graduate Status. Designed to familiarize students with key aspects of developing partnerships among private and public sector organizations for the purposes of assessing and improving the health of communities. Particular skills include coalition development, developing a constituency/partnership, advocacy, team building, and leadership.</td>
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<tr>
<td>PHC 6146</td>
<td>Health Services Planning and Evaluation</td>
<td>3</td>
<td>PH</td>
<td>HPM PR: PHC 6050 or CI. Study of health services planning concepts/methods, and evaluation, with an emphasis on facilities and manpower planning, providing an in-depth orientation to information requirements for health planning, and methods to cover gaps of information.</td>
<td></td>
</tr>
<tr>
<td>PHC 6147</td>
<td>Managing Quality in Health Care</td>
<td>3</td>
<td>PH</td>
<td>CFH PR: Graduate Status. Study of methods and tools for managing quality in health care. The developments in applications of quality assurance, utilization review, continuous quality improvement, and total quality management in health services including hospitals, managed care, and public health.</td>
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</tr>
<tr>
<td>PHC 6148</td>
<td>Strategic Planning and Health Care Marketing</td>
<td>3</td>
<td>PH</td>
<td>HPM PR: PHC 6102 or CI. The course reviews the fundamental steps in the strategic planning process and marketing approaches for health care organizations. The textbook and exercises emphasize non-profit organizations.</td>
<td></td>
</tr>
<tr>
<td>PHC 6150</td>
<td>Health Policy Analysis</td>
<td>3</td>
<td>PH</td>
<td>HPM PR: PHC 6102 or CI. A detailed study of policies, policy making, and policy analysis in health services and their relationship to health planning, management, and health care delivery.</td>
<td></td>
</tr>
<tr>
<td>PHC 6151</td>
<td>Health Policy and Politics</td>
<td>3</td>
<td>PH</td>
<td>HPM PR: PHC 6102 or CI. This course will examine the role of federal, state, and local government in health care organization, delivery, and financing in the United States and other comparable industrial nations.</td>
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<tr>
<td>Course Code</td>
<td>Course Title</td>
<td>Credits</td>
<td>Prerequisites</td>
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<tr>
<td>PHC 6158</td>
<td>Managed Care</td>
<td>3 PH</td>
<td>PR: At least one undergraduate course in Financial or Managerial Accounting and PHC 6102 or CI.</td>
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<tr>
<td>PHC 6160</td>
<td>Health Care Financial Management</td>
<td>3 PH</td>
<td>PR: PHC 6102 or CI. A case method approach to the financial management of health care organizations. Quantitative decision analysis techniques, costing methods, and financial policy analysis skills are emphasized.</td>
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<tr>
<td>PHC 6161</td>
<td>Health Care Finance Applications</td>
<td>3 PH</td>
<td>PR: PHC 6102 or CI. Advanced study of specific topics in health care organization management including the managerial process, organizational theory, resource utilization and control, and human resource management.</td>
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<tr>
<td>PHC 6180</td>
<td>Health Services Management</td>
<td>3 PH</td>
<td>PR: PHC 6102 and undergraduate accounting course or CI. Investigates the impact that individuals, groups, and structure have on behavior within organizations. The application of such knowledge is used toward advancing the effectiveness of health care and related organizations. Special consideration is given to human resource applications. Case studies and other exercises are used.</td>
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<tr>
<td>PHC 6181</td>
<td>Organizational Behavior in Health Services</td>
<td>3 PH</td>
<td>PR: PHC 6102 or CI. Public Health and other professionals will be given an overview of the disaster management process. Provides terms, definitions, and concepts of emergency management from a local, national, and international perspective.</td>
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<tr>
<td>PHC 6182</td>
<td>Overview of United States and International Emergency/Disaster Management</td>
<td>3 PH</td>
<td>PR: PHC 6182. The content of this course is designed to expose the concepts of: 1) recovery models used by the United States and International operations, 2) recovery planning and response to a disaster environment, especially in terms of major disaster incidents, 3) broadening and enhancing the understanding of roles and responsibilities, and 4) the importance to the overall recovery effort. In addition to the United States and international focus, the course also addresses the coordination and problem solving aspects of disaster operations.</td>
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<tr>
<td>PHC 6184</td>
<td>Emergency/Disaster Recovery</td>
<td>3 PH</td>
<td>PR: PHC 6182. Emergency Preparedness and Planning provides an overview to preparedness strategies, emergency planning and assessment of hazards and resources. This course provides intermediate level direction and builds upon planning concepts learned in Overview of United States and International Energy Management. Studies include in-depth planning and analytical framework, hazard/vulnerability analysis, and management.</td>
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<tr>
<td>PHC 6185</td>
<td>Emergency/Disaster Preparedness and Planning</td>
<td>3 PH</td>
<td>PR: PHC 6182. To develop or improve the skills of persons interested in providing emergency health services in humanitarian emergencies. The course is divided into two parts: 1) meeting health needs large populations and 2) the humanitarian and ethical issues of refugees and displaced people. Topics covered include food and nutrition, water and sanitation, providing health services, reproductive health, control of communicable diseases, humanitarian law, human rights, ethics, and the geopolitical issues related to population displacement particularly from conflict.</td>
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<tr>
<td>PHC 6186</td>
<td>Public Health Emergencies in Large Populations (PHLEP)</td>
<td>3 PH</td>
<td>PR: PHC 6182.</td>
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</tbody>
</table>

The course provides a comprehensive overview of managed care principles, objectives, types and models, relevant policy issues, and management functions and practices applicable to managed care settings. Students will develop an understanding of the impact of managed care on cost, quality and access, and on provider organization and communities.
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Name</th>
<th>Credits</th>
<th>Department</th>
<th>Prerequisites</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>PHC 6191</td>
<td>Quantitative Analysis in Health Care Management</td>
<td>3</td>
<td>HPM</td>
<td>PR: PHC 6050 and PHC 6180, PHC 6430 and PHC 6151 or CI.</td>
<td>This course examines the use of quantitative modeling in the management of health care organizations. Emphasis is given to the application of standard modeling techniques to operational problems in health and medical care settings.</td>
</tr>
<tr>
<td>PHC 6193</td>
<td>Qualitative Methods in Community Health Research</td>
<td>3</td>
<td>CFH</td>
<td></td>
<td>This course provides classroom instruction and field application of qualitative research methods for studying community health problems. It provides a general introduction to ethnographic field methods, emphasizing systematic approaches to collection and analysis of qualitative data. Students will learn to identify the kinds of research problems for which qualitative methods are appropriate, and to critique qualitative research in terms of design, technique, analysis and interpretation.</td>
</tr>
<tr>
<td>PHC 6196</td>
<td>Information Systems in Health Care Management</td>
<td>3</td>
<td>HPM</td>
<td>PR: PHC 6050 or CI.</td>
<td>The course is designed to prepare students to analyze and design information systems in health services organizations.</td>
</tr>
<tr>
<td>PHC 6197</td>
<td>Community Health Data Sources and Technology</td>
<td>3</td>
<td>CFH</td>
<td></td>
<td>The purpose of this course is to provide experience in the management and analysis of data sets relevant to public health. Among the data sets considered are vital statistics, health care utilization databases, practitioner and other registries, periodic surveys, selected surveillance systems, and programmatic data.</td>
</tr>
<tr>
<td>PHC 6251</td>
<td>Disease Surveillance and Monitoring</td>
<td>3</td>
<td>CFH</td>
<td></td>
<td>A review of epidemiological principles and methods used in the development and practice of disease and infection surveillance, prevention and control for public health in general and in the context of the hospital setting in particular. Basic epidemiological concepts will be focused in communicable diseases, nosocomial infections, environmental exposures, and emerging diseases. PR: Biostatistics Epidemiology, or CI.</td>
</tr>
<tr>
<td>PHC 6301</td>
<td>Analysis of Water and Wastewater</td>
<td>3</td>
<td>EOH</td>
<td>PR: CHM 3610C or CI.</td>
<td>A study of treatment systems for water and wastewater. Emphasis is given to problems encountered in current technologies, health effects, and environmental impact.</td>
</tr>
<tr>
<td>PHC 6302</td>
<td>Municipal Sanitation</td>
<td>3</td>
<td>EOH</td>
<td>PR: PHC 6357 or CI.</td>
<td>A study of environmental sanitation activities, programs, and issues of local government.</td>
</tr>
<tr>
<td>PHC 6303</td>
<td>Community Air Pollution</td>
<td>3</td>
<td>EOH</td>
<td>PR: CHM 3610C or CI.</td>
<td>A study of air pollutants. Emphasis is given to sources and control technologies as well as health effects and environmental impact.</td>
</tr>
<tr>
<td>PHC 6304</td>
<td>Environmental Health Microbiology</td>
<td>3</td>
<td>EOH</td>
<td>PR: MCB 3010C or CI.</td>
<td>Techniques for isolation and enumeration of microorganisms of health significance from food and aquatic sources.</td>
</tr>
<tr>
<td>PHC 6305</td>
<td>Chemical Methods in Environmental Health</td>
<td>3</td>
<td>EOH</td>
<td>PR: CHM 3610C or CI.</td>
<td>Techniques used in quantitative and qualitative chemical analyses for determining water quality.</td>
</tr>
<tr>
<td>PHC 6306</td>
<td>Radiation Health Principles</td>
<td>2</td>
<td>EOH</td>
<td>PR: CI.</td>
<td>An analysis of the basic concepts of radiation and the protection of individuals and population groups from ionizing and non-ionizing radiation as well as establishing relationships between radiation exposure and biological damage.</td>
</tr>
</tbody>
</table>

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<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
<th>Division</th>
<th>Prerequisites</th>
<th>Description</th>
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</thead>
<tbody>
<tr>
<td>PHC 6310</td>
<td>Environmental Occupational Toxicology</td>
<td>3</td>
<td>PH</td>
<td>EOH PR: CI.</td>
<td>A study of the nature of industrial and environmental toxins and toxic by-products, generated and distributed, leading to disease, disability, or death, and the control measures available. Lecture and appropriate laboratory methods are used.</td>
</tr>
<tr>
<td>PHC 6312</td>
<td>Environmental Fate of Chemical Releases</td>
<td>3</td>
<td>PH</td>
<td>EOH PR: CHM 2046, PHY 2054, MAC 2312 or CI.</td>
<td>Provides an understanding of the environmental and physico-chemical factors involved in the transport, transformation, and fate of compounds released to the environment. Material covered includes sources of chemical releases as well as the factors affecting the distribution and transformation of chemicals. Routes of exposure and accumulation by humans and other organisms will also be evaluated.</td>
</tr>
<tr>
<td>PHC 6314</td>
<td>Infection Control Program Design</td>
<td>3</td>
<td>PH</td>
<td>EOH PR: CI.</td>
<td>This course will review educational program design for health care workers, instructional methods, personnel and financial resource management, role of Infection Control (IC) personnel, development of goals, mission statement, action plans for IC, evaluation of programs, communication with administration, physicians and care givers.</td>
</tr>
<tr>
<td>PHC 6315</td>
<td>Infectious Disease Prevention Strategies</td>
<td>3</td>
<td>PH</td>
<td>EOH PR: CI.</td>
<td>This course focuses on surveillance criteria, outbreak criteria, data collection and study design. Also included will be data analysis and reporting; interaction with public health agencies; preparation for Joint Commission on Accreditation of Healthcare Organizations (JCAHO); prevention and intervention; sanitation, disinfection, antisepsis and sterilization; role of immunization, antimicrobial prophylaxis and therapy.</td>
</tr>
<tr>
<td>PHC 6317</td>
<td>Biological and Surface Monitoring</td>
<td>2</td>
<td>PH</td>
<td>EOH PR: CHM 2200, CHM 2211, BSC 2010 and CI.</td>
<td>This public health course will provide students with a thorough understanding of Biological Monitoring as a method of evaluating exposure to environmental agents. Students learn to distinguish between the limitations of this emerging technology and how to avoid pitfalls associated with misapplication of results. Students learn how to develop sampling strategies for specific chemicals.</td>
</tr>
<tr>
<td>PHC 6351</td>
<td>Occupational Medicine for Health Professionals</td>
<td>2</td>
<td>PH</td>
<td>EOH CI.</td>
<td>Designed to enhance the skills of select health professionals in identifying, evaluating and charting a course of action for medical conditions resulting from occupational exposures and hazards.</td>
</tr>
<tr>
<td>PHC 6353</td>
<td>Environmental Risk Assessment</td>
<td>2</td>
<td>PH</td>
<td>EOH PR: CI.</td>
<td>Designed to provide training for students to develop the skills necessary to identify, characterize, quantify, and manage human health and ecological risks for the protection of human health and the environment.</td>
</tr>
<tr>
<td>PHC 6354</td>
<td>Safety and Health Administration</td>
<td>2</td>
<td>PH</td>
<td>EOH PR: CI.</td>
<td>A study of techniques and administrative practices which are instrumental in the initiation and maintenance of programs and procedures that are geared to prevent and reduce work related injuries, illnesses, and discomfort.</td>
</tr>
<tr>
<td>PHC 6356</td>
<td>Industrial Hygiene</td>
<td>2</td>
<td>PH</td>
<td>EOH PR: CI.</td>
<td>A study of the recognition, evaluation, and control of the workplace affecting the health of employees.</td>
</tr>
<tr>
<td>PHC</td>
<td>Course Title</td>
<td>Credits</td>
<td>Prerequisites</td>
<td>Description</td>
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<tr>
<td>PHC 6357</td>
<td>Environmental and Occupational Health</td>
<td>3</td>
<td>PH EOH PR: CI.</td>
<td>The study of major environmental and occupational factors that contribute to development of health problems in industrialized and developed countries.</td>
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</tr>
<tr>
<td>PHC 6358C</td>
<td>Industrial Hygiene--Physical Agents</td>
<td>2</td>
<td>PH EOH PR: PHC 6356 and 1 year college physics or CI.</td>
<td>Recognition, evaluation, and control of physical agents in the workplace. Laboratory exercises and field surveys will be conducted in addition to class lectures. Lec/Lab.</td>
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</tr>
<tr>
<td>PHC 6359</td>
<td>Xenobiotic Metabolism in Environmental and Occupational Health</td>
<td>3</td>
<td>PH EOH PR: CI.</td>
<td>Study of enzymes involved in biotransformation of foreign compounds important in environmental and occupational health.</td>
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</tr>
<tr>
<td>PHC 6360</td>
<td>Safety Management Principles and Practices</td>
<td>2</td>
<td>PH EOH PR: CI.</td>
<td>A study of safety management as it relates to hazard identification, accident investigation and training, enabling the safety manager to reduce costs to business, industry, and government.</td>
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<tr>
<td>PHC 6361</td>
<td>Industrial Ergonomics</td>
<td>2</td>
<td>PH EOH PR: PHC 6360 or CI.</td>
<td>Systems logic and methodology for assessing the potential impact of work environments on the health and safety of workers; application of occupational ergonomics and human factors to the design and evaluation of complex work environments.</td>
<td></td>
</tr>
<tr>
<td>PHC 6362</td>
<td>Industrial Ventilation</td>
<td>2</td>
<td>PH EOH PR: PHC 6356 or CI.</td>
<td>Basic principles of fluid mechanics and exhaust ventilation are employed in the design and evaluation of the performance of industrial ventilation systems.</td>
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</tr>
<tr>
<td>PHC 6364</td>
<td>Industrial Hygiene Aspects of Plant Operations</td>
<td>2</td>
<td>PH EOH PR: PHC 6356 or CI.</td>
<td>Field visits to industrial plants will be conducted so as to familiarize students without prior experience to the health hazards associated with various processes and the methods of control employed to prevent excessive exposures.</td>
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</tr>
<tr>
<td>PHC 6365C</td>
<td>Analytical Methods in Industrial Hygiene I</td>
<td>2</td>
<td>PH EOH PR: PHC 6356 or CI.</td>
<td>Analytical measuring methodologies and instruments employed in evaluating exposure to chemical agents are described and detailed. Hands-on laboratory exercises permit full familiarization in the calibration and use of these instruments. Problem solving sessions result in the development of a routine for the proper handling of laboratory data.</td>
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<tr>
<td>PHC 6366C</td>
<td>Analytical Methods in Industrial Hygiene II</td>
<td>2</td>
<td>PH EOH PR: PHC 6356 or CI.</td>
<td>Analytical measuring methodologies and instruments employed in evaluating exposure to physical agents are described and detailed. Hands-on laboratory exercises permit full familiarization in the calibration and use of these instruments. Problem solving sessions result in the development of a routine for the proper handling of laboratory data.</td>
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<tr>
<td>PHC 6367</td>
<td>Control Aspects of Industrial Hygiene</td>
<td>2</td>
<td>PH EOH PR: PHC 6356, PHC 6358.</td>
<td>This course maps out the framework for industrial hygiene controls with an emphasis on engineering controls, administrative controls and personal protection. It is the capstone course for industrial hygiene students, who will apply their knowledge of hazard evaluation to the appropriate selection of controls.</td>
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<tr>
<td>PHC 6368</td>
<td>Industrial Toxicology</td>
<td>2</td>
<td>PH EOH PR: PHC 6356, PHC 6358.</td>
<td>This course will focus on specific industries, industrial processes and the chemicals that worker's may be potentially exposed to, and their impact on Public Health. The Standard Industrial Classification (SIC) division structure will be used to identify industries that have been studied by NIOSH or other agencies. For each industry identified, chemical hazards, exposure routes, toxicology effects, and monitoring methods will be discussed emphasizing the need for a multidisciplinary approach in providing information aimed at reducing worker exposures.</td>
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<tr>
<td>Course Code</td>
<td>Course Title</td>
<td>Credits</td>
<td>Requirements</td>
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<tr>
<td>PHC 6371</td>
<td>Air Dispersion Modeling for Regulatory Compliance</td>
<td>3</td>
<td>PH EOH</td>
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<tr>
<td>PHC 6401</td>
<td>Homelessness: Implications for Behavioral Healthcare</td>
<td>3</td>
<td>PH CFH</td>
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<tr>
<td>PHC 6410</td>
<td>Social And Behavioral Sciences Applied to Health</td>
<td>3</td>
<td>PH CFH PR: CI</td>
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<tr>
<td>PHC 6411</td>
<td>Introduction to Social Marketing for Public Health</td>
<td>3</td>
<td>PH CFH PR: CL</td>
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<tr>
<td>PHC 6413</td>
<td>Family and Community Violence in Public Health</td>
<td>3</td>
<td>PH CFH</td>
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<tr>
<td>PHC 6414</td>
<td>Adolescent Health</td>
<td>3</td>
<td>PH CFH</td>
<td></td>
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<tr>
<td>PHC 6418</td>
<td>Public Health and Aging</td>
<td>3</td>
<td>PH CFH</td>
<td></td>
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<tr>
<td>PHC 6419</td>
<td>Global Issues in Community and Family Health</td>
<td>3</td>
<td>PH CFH</td>
<td></td>
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<tr>
<td>PHC 6420</td>
<td>Health Care Law, Regulation and Ethics</td>
<td>3</td>
<td>PH CFH</td>
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</tbody>
</table>

A study of air pollution meteorology (atmospheric energy balance, inversions and winds), micrometeorology (atmospheric fluid mechanics, turbulence, winds, stability classes, convective boundary layer) and atmospheric diffusion (different theories, Gaussian plume equation, air quality models, atmospheric removal processes), supported by a computer laboratory.

A study of the structural, personal, treatment, and sociopolitical issues related to homelessness. Causes of homelessness from structural and personal factors are explored. Quantitative and qualitative data are reviewed to examine the experience of homelessness, pathways into homelessness including mental health, substance abuse, and violence/trauma. A special focus will be on the research conducted by the instructors on services for homeless families and the prevention of homelessness among individuals with severe mental illness.

A review of the conceptual, empirical, and theoretical contributions of the Social and Behavioral Sciences as they contribute to an understanding of health and illness.

This course is designed to analyze the components and applications of social marketing for public health: theoretical foundations; research methods; strategy development; program design and implementation, materials pretesting, and ethics.

The objective of this course will be to identify and to focus on the most serious policy and research issues which are specific to the field of family violence. The course will cover theory, research, and applied programs in community settings.

The purpose of this course is to provide an overview of adolescent health issues and trends. With this primary aim, the objectives are organized around the knowledge of health assessment and interventions with adolescents and the skills needed for effective teaching methodologies to enhance health provider communication with adolescents. This course is not restricted to Public Health graduate students.

A study of specific health promotion and disease prevention strategies for older adults in the context of community health, immunizations, nutrition, exercise, and stress management. Also management for chronic disease, delay of disabilities, and types of long term care deliver and settings are examined.

This course provides an overview of current public health issues and problems affecting communities and families around the world. A comparative approach is taken to highlight similarities and differences across countries at variable levels of socioeconomic development. Problems are addressed in terms of etiology, impact and intervention strategies. Reg. Permit Required: CI.

This is a survey course of the most significant issues in health care law. Core topics include licensure, malpractice, reproductive issues, the right to die, and managed care. Students will develop and understanding of substantive law,
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
<th>Type</th>
<th>Prerequisites</th>
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</thead>
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<tr>
<td>PHC 6422</td>
<td>Environmental Health Law</td>
<td>2</td>
<td>PH</td>
<td>EOH PR: EOH 6357.</td>
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<td>Review and analysis of Federal and State laws and regulations in relation to the pollution, regulation and protection of the air, water, and environment issues in general.</td>
</tr>
<tr>
<td>PHC 6423</td>
<td>Occupational Health Law</td>
<td>2</td>
<td>PH</td>
<td>EOH PR: EOH 6357.</td>
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<tr>
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<td></td>
<td>Review and analysis of Federal and State laws and regulations in relation to Occupational Health and safety.</td>
</tr>
<tr>
<td>PHC 6430</td>
<td>Health Economics I</td>
<td>3</td>
<td>PH</td>
<td>HPM PR: ECO 2023 or equiv. and CI.</td>
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<td>Microeconomic analysis of the structure of the health care industry and economic incentives facing physicians, patients, and hospitals.</td>
</tr>
<tr>
<td>PHC 6433</td>
<td>Health Economics II</td>
<td>3</td>
<td>PH</td>
<td>HPM PR: PHC 6430 or CI.</td>
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<td>Second of a two part sequence surveying various applications of economic principles and methods to current issues in public health. Emphasis on efficiency goals of health care policy and the use of economic analysis in the design of such policy.</td>
</tr>
<tr>
<td>PHC 6435</td>
<td>Economics of Health Insurance</td>
<td>3</td>
<td>PH</td>
<td>EOH PR: PHC 6430 or CI.</td>
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<td>Presents an overview of major health insurance issues, including demand, supply, employment based coverage, the uninsured, government sponsored programs, managed care, and national health. The analysis will be based on microeconomic tools and is intended for management or policy oriented students with an interest in health insurance and managed care.</td>
</tr>
<tr>
<td>PHC 6482</td>
<td>Overview of United States and International</td>
<td>3</td>
<td>PH</td>
<td>EOH</td>
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<tr>
<td></td>
<td>Emergency/Disaster Management</td>
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<td>Public Health and other professionals will be given an overview of the disaster management process. The course provides terms, definitions, and concepts of emergency management from a local, national, and international perspective.</td>
</tr>
<tr>
<td>PHC 6500</td>
<td>Foundations of Health Education</td>
<td>3</td>
<td>PH</td>
<td>CFH PR: CI</td>
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<tr>
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<td>Study of the historical, social and cultural factors influencing health behavior and the practice of health education.</td>
</tr>
<tr>
<td>PHC 6505</td>
<td>Health Education Program Planning</td>
<td>3</td>
<td>PH</td>
<td>CFH PR: PHC 6500 or CI.</td>
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<tr>
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<td>Analysis of the planning and development process for health education programs.</td>
</tr>
<tr>
<td>PHC 6506</td>
<td>Community Health Education</td>
<td>3</td>
<td>PH</td>
<td>CFH PR: PHC 6500 or CI.</td>
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<td>Analysis of major community health problems, their causes, the roles of individuals, community institutions, and government in effecting solutions. Emphasis is upon participation and organization for community health. Class and field work sessions.</td>
</tr>
<tr>
<td>PHC 6507</td>
<td>Health Education Methods</td>
<td>3</td>
<td>PH</td>
<td>CFH PR: PHC 6500 or CI.</td>
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<td>Prepares students to analyze and incorporate effective content and process in health education program delivery. Course not restricted to health education majors.</td>
</tr>
<tr>
<td>PHC 6508</td>
<td>Case Studies in Health Education</td>
<td>3</td>
<td>PH</td>
<td>CFH PR: PHC 6500, 30 hours toward MPH, or CI.</td>
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<tr>
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<td>An assessment of selected case studies in Health Education with an emphasis on application, analysis, and evaluation of health education theory and practice to various public, private, health care, and school settings.</td>
</tr>
<tr>
<td>PHC 6510</td>
<td>Exotic and Infectious Disease</td>
<td>3</td>
<td>PH</td>
<td>EOH PR: CI</td>
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<tr>
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<td>A study of human infectious disease with particular emphasis on diseases caused by parasites, viruses, bacteria, and fungi found in sub-tropical and tropical environments.</td>
</tr>
<tr>
<td>Course Code</td>
<td>Course Title</td>
<td>Credits</td>
<td>Prerequisites</td>
<td>Course Description</td>
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<tr>
<td>PHC 6511</td>
<td>Tropical Health Immunology</td>
<td>3</td>
<td>EOH PR: CI.</td>
<td>Immunology as applied to public health. Emphasis is on applications of immunology and immunological techniques used in surveillance, prevention, and control of public health problems.</td>
</tr>
<tr>
<td>PHC 6512</td>
<td>Vectors of Human Disease</td>
<td>3</td>
<td>EOH PR: CI.</td>
<td>Biology of the vectors of human disease: major groups include the arthropods, mollusks, and mammals. Emphasis on the ecology of the vectors and their transmission of pathogens as they relate to public health.</td>
</tr>
<tr>
<td>PHC 6513</td>
<td>Public Health Parasitology</td>
<td>3</td>
<td>EOH PR: CI.</td>
<td>Human diseases caused by parasite infection with emphasis on diseases related to environmental exposure and of public health importance. Major groups include the protozoans, cestodes, trematodes, and nematodes of human disease.</td>
</tr>
<tr>
<td>PHC 6514</td>
<td>Infectious Disease Control in Developing Countries</td>
<td>3</td>
<td>EOH PR: PHC 6000.</td>
<td>Focuses on disease control strategies for selected infectious and communicable diseases. Diseases covered have been selected on the basis of their relative contribution to the burden of disease in developing countries.</td>
</tr>
<tr>
<td>PHC 6521</td>
<td>Public Health Nutrition</td>
<td>3</td>
<td>CFH PR: CI.</td>
<td>An analysis of nutritional issues concerned with health and disease. Biological and social interactions are studied as they relate to the development, monitoring, and evaluation of community nutrition intervention programs.</td>
</tr>
<tr>
<td>PHC 6522</td>
<td>The Biological Role of Nutrition in Health</td>
<td>3</td>
<td>CFH PR: HUN 3201, ZOO 2713C, PCB 4743, BCH 3023, or CI.</td>
<td>Advanced study of the biochemical and physiological roles of nutrition in health and disease.</td>
</tr>
<tr>
<td>PHC 6523</td>
<td>Policies and Practices in Maternal and Child Nutrition</td>
<td>3</td>
<td>CFH PR: CI.</td>
<td>Study of nutrition policies and practices in maternal and child health from pregnancy through the pre-school years. Focus on issues concerned with risk identification, interventions and outcome evaluations.</td>
</tr>
<tr>
<td>PHC 6524</td>
<td>Public Health Nutrition for the Adult and Aging Population</td>
<td>3</td>
<td>CFH PR: PHC 6521, PHC 6522, or CI.</td>
<td>Study of policies and practices of nutrition in health promotion and disease prevention in adults. Focus on issues concerned with risk identification, nutrition interventions and outcome evaluations.</td>
</tr>
<tr>
<td>PHC 6526</td>
<td>Nutrition Assessment of Individuals and Communities</td>
<td>3</td>
<td>CFH PR: PHC 6521, PHC 6522, or CI.</td>
<td>Comparative study of anthropometric, biochemical, dietary, clinical and socioeconomic indicators of nutritional status including the differential use of these indicators for individuals and communities.</td>
</tr>
<tr>
<td>PHC 6527</td>
<td>Case Studies in Public Health Nutrition</td>
<td>3</td>
<td>CFH PR: CI.</td>
<td>Capstone course intended to provide a unifying opportunity to utilize concepts, principles and skills learned from other public health nutrition courses.</td>
</tr>
<tr>
<td>PHC 6530</td>
<td>Maternal and Child Health I: Issues and Concepts</td>
<td>3</td>
<td>CFH PR: CI.</td>
<td>The purpose of this course is to provide for the foundation of Maternal and Child health for students who will be concentrating in this area, or as an overview for non-majors.</td>
</tr>
<tr>
<td>PHC 6531</td>
<td>Health Programs for Children with Special Needs</td>
<td>3</td>
<td>CFH PR: CI.</td>
<td>A study of causative factors, characteristics, care needs and programs for handicapped children with emphasis on health and health care issues.</td>
</tr>
<tr>
<td>PHC 6532</td>
<td>Women's Health Issues in Public Health</td>
<td>3</td>
<td>CFH PR: CI.</td>
<td>A public health orientation of women's health needs with their impact on society, family, and children.</td>
</tr>
<tr>
<td>Course Code</td>
<td>Title</td>
<td>Credits</td>
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<tr>
<td>PHC 6533</td>
<td>Health Program Development and Change Process</td>
<td>3</td>
<td>PH CFH PR: CI</td>
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<td></td>
<td>A study of approaches to program development, implementation and</td>
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<td></td>
<td>management of change process in maternal and child health.</td>
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<tr>
<td>PHC 6534</td>
<td>Cultural Competency in Children's Mental Health</td>
<td>3</td>
<td>PH CFH PR: Graduate Status</td>
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<tr>
<td></td>
<td>The course will explore the need of cultural competence in</td>
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<td></td>
<td>provision of mental health services in a multicultural society.</td>
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<td></td>
<td>The course will examine culture and ethnicity, multiculturalism,</td>
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<td></td>
<td>and intercultural communication. The course will define cultural</td>
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<td></td>
<td>competence from the perspective of the current different</td>
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<td></td>
<td>approaches to the concept, and examine cultural competence at both</td>
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<td></td>
<td>mental health systems and service provision levels. Case studies</td>
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<td></td>
<td>of how cultural competence is implemented by different mental health</td>
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<td></td>
<td>organizations will be examined.</td>
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<tr>
<td>PHC 6535</td>
<td>International Maternal and Child Health</td>
<td>3</td>
<td>PH CFH PR: CI</td>
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<tr>
<td></td>
<td>The course examines current priorities for improving the health of</td>
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<td></td>
<td>mothers and children in developing countries. The emphasis is on</td>
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<td></td>
<td>understanding MCH issues within the larger context of primary</td>
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<td></td>
<td>health care and sociocultural factors which influence behavior.</td>
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<tr>
<td>PHC 6536</td>
<td>Population and Community Health</td>
<td>3</td>
<td>PH CFH PR: PHC 6410 or CI.</td>
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<td></td>
<td>Population information and applications in health programs.</td>
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<td></td>
<td>Topics include: population growth and decline, structure,</td>
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<td>distribution, fertility, morbidity and mortality, and migration</td>
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<tr>
<td></td>
<td>as applied to maternal, child and community health.</td>
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<tr>
<td>PHC 6537</td>
<td>Maternal And Child Health II: Case Studies in MCH Programs, Policies</td>
<td>3</td>
<td>PH CFH PR: PHC 6530, PH Core Courses, or CI.</td>
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<td></td>
<td>and Research</td>
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<td></td>
<td>Capstone course intended to provide unifying opportunity to</td>
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<td></td>
<td>utilize concepts, principles, and skills learned in other MCH and</td>
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<tr>
<td></td>
<td>public health courses.</td>
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<tr>
<td>PHC 6540</td>
<td>Public Mental Health</td>
<td>3</td>
<td>PH HPM PR: CL</td>
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<tr>
<td></td>
<td>General principles of management theory, methods,</td>
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<td></td>
<td>administrative processes, and organizational structure of public</td>
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<td></td>
<td>and private mental health organization in hospital and ambulatory</td>
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<td></td>
<td>care settings.</td>
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<tr>
<td>PHC 6541</td>
<td>Public Mental Health Administration</td>
<td>3</td>
<td>PH HPM PR: PHC 6540, PHC 6102 or CI.</td>
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<tr>
<td></td>
<td>This web-based course is a graduate course in Behavioral Health</td>
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<td></td>
<td>within the Department of Community and Family Health. It is</td>
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<td>designed to provide the graduate student with an overview</td>
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<td></td>
<td>and understanding of the significant issues and trends in</td>
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<td></td>
<td>community &amp; family mental health delivery systems in America.</td>
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<td>Four major areas of mental health will be emphasized: 1) history</td>
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<td>and legislation; 2) systems delivery; 3) programs and policies;</td>
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<td>4) and selected at-risk populations.</td>
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<tr>
<td>PHC 6543</td>
<td>Foundations in Behavioral Health Systems</td>
<td>3</td>
<td>PH CFH PR: Graduate Status</td>
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<td></td>
<td>The content of this course is designed to prepare</td>
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<td>professionals to work in partnership with families and other</td>
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<td>professionals and participate in interdisciplinary teams in a</td>
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<td></td>
<td>variety of settings to meet the needs of children with mental</td>
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<td>health problems.</td>
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<tr>
<td>PHC 6544</td>
<td>Children's Mental Health Services</td>
<td>3</td>
<td>PH CFH PR: Permit Required CI</td>
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<td></td>
<td>A study of the theories and practical approaches to the</td>
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<td>development of evaluative methods for</td>
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<td>behavioral health.</td>
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<tr>
<td>PHC 6545</td>
<td>Evaluation in Mental Health</td>
<td>3</td>
<td>PH CFH PR: Biostatistics I or Equivalent</td>
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<tr>
<td></td>
<td>This course focuses on case management systems with a</td>
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<td>special emphasis on clinical case management for</td>
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<td>vulnerable populations, especially persons with severe mental</td>
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<td>illness and older adults. This course is designed for persons</td>
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<td>who are interested in providing case management services,</td>
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<td></td>
<td>managing such services, or have an</td>
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- 434 -
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
<th>Department</th>
<th>Prerequisite(s)</th>
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<tbody>
<tr>
<td>PHC 6548</td>
<td>Grant Writing in Mental Health</td>
<td>3</td>
<td>CFH</td>
<td>PR: Graduate Status</td>
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<tr>
<td>PHC 6549</td>
<td>HIV and Mental Health</td>
<td>3</td>
<td>CFH</td>
<td>PR: Graduate Status</td>
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<tr>
<td>PHC 6550</td>
<td>Community-Based Prevention in Behavioral Health</td>
<td>3</td>
<td>CFH</td>
<td>PR: Graduate Status</td>
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<tr>
<td>PHC 6590</td>
<td>Reproductive Health Trends And Issues</td>
<td>3</td>
<td>CFH</td>
<td>PR: CI</td>
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<tr>
<td>PHC 6700</td>
<td>Research Methods in Epidemiology</td>
<td>3</td>
<td>EPB</td>
<td>PR: PHC 6000, PHC 6050 and CI</td>
</tr>
<tr>
<td>PHC 6701</td>
<td>Computer Applications for Public Health Researchers</td>
<td>3</td>
<td>EPB</td>
<td>PR: CI</td>
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<tr>
<td>PHC 6705</td>
<td>Formative Research Methods in Social Marketing</td>
<td>3</td>
<td>CFH</td>
<td>PR: Introduction to Social Marketing</td>
</tr>
<tr>
<td>PHC 6706</td>
<td>Focus Group Research Strategies</td>
<td>3</td>
<td>CFH</td>
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<tr>
<td>Course Code</td>
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<tr>
<td>PHC 6707</td>
<td>Evaluative Approaches to Community and Family Health Education Programs</td>
<td>3</td>
<td>PH CFH</td>
<td>PR: PHC 6500 and PHC 6505 or PHC 6530 or CI.</td>
</tr>
<tr>
<td>PHC 6760</td>
<td>Health Program Evaluation</td>
<td>3</td>
<td>PH HPM</td>
<td>PR: PHC 6430, PHC 6180, and PHC 6151 or CI.</td>
</tr>
<tr>
<td>PHC 6907</td>
<td>Independent Study: Public Health</td>
<td>1-3</td>
<td>PH PHC</td>
<td>PR: CL S/U.</td>
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<tr>
<td>PHC 6930</td>
<td>Public Health Seminar</td>
<td>1-3</td>
<td>PH PHC</td>
<td>PR: Graduate Standing S/U.</td>
</tr>
<tr>
<td>PHC 6931</td>
<td>Advanced Seminar In Social &amp; Behavioral Sciences Applied To Health</td>
<td>3</td>
<td>PH CFH</td>
<td>PR: CL.</td>
</tr>
<tr>
<td>PHC 6934</td>
<td>Selected Topics in Public Health</td>
<td>1-6</td>
<td>PH PHC</td>
<td>PR: CL.</td>
</tr>
<tr>
<td>PHC 6945</td>
<td>Supervised Field Experience</td>
<td>1-12</td>
<td>PH PHC</td>
<td>PR: CL S/U only.</td>
</tr>
<tr>
<td>PHC 6977</td>
<td>Special Project: MPH</td>
<td>3</td>
<td>PH PHC</td>
<td>PR: CL S/U.</td>
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<tr>
<td>PHC 7001</td>
<td>Practical Issues in Epidemiology</td>
<td>3</td>
<td>PH EPB</td>
<td>PR: PHC 6000.</td>
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<tr>
<td>PHC 7015</td>
<td>Epidemiologic Study Design and Protocol Development</td>
<td>3</td>
<td>PH EPB</td>
<td>PR: PHC 6000, PHC 6700, PHC 6031 and CI.</td>
</tr>
<tr>
<td>PHC 7018</td>
<td>Environmental Epidemiology</td>
<td>3</td>
<td>PH EPB</td>
<td>PR: PHC 6000 and CI.</td>
</tr>
<tr>
<td>Course Code</td>
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<tr>
<td>PHC 7019</td>
<td>Occupational Epidemiology</td>
<td>3</td>
<td>PH</td>
<td>EPB PR: PHC 6000 and CI</td>
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<tr>
<td>PHC 7028</td>
<td>Advanced Clinical Trials</td>
<td>4</td>
<td>PH</td>
<td>EPB PR: PHC 6000, PHC 6050, PHC 6700, PHC 6701, PHC 6017.</td>
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<tr>
<td>PHC 7054</td>
<td>Advanced Biostatistical Methods</td>
<td>3</td>
<td>PH</td>
<td>EPB PR: CI</td>
</tr>
<tr>
<td>PHC 7055</td>
<td>Biostatistical Computing</td>
<td>3</td>
<td>PH</td>
<td>EPB PR: STA 6447 and PHC 7058, or CI.</td>
</tr>
<tr>
<td>PHC 7056</td>
<td>Longitudinal Data Analysis</td>
<td>3</td>
<td>PH</td>
<td>EPB PR: PHC 7058 and PHC 7053 or CI.</td>
</tr>
<tr>
<td>PHC 7058</td>
<td>Biostatistical Inference II</td>
<td>3</td>
<td>PH</td>
<td>EPB PR: STA 6447 or CI.</td>
</tr>
<tr>
<td>PHC 7059</td>
<td>Advanced Survival Data Analysis</td>
<td>3</td>
<td>PH</td>
<td>EPB PR: STA 6447 and PHC 7058</td>
</tr>
<tr>
<td>PHC 7065</td>
<td>Generalized Linear Models</td>
<td>3</td>
<td>PH</td>
<td>EPB PR: PHC 7058</td>
</tr>
<tr>
<td>PHC 7152</td>
<td>Policy and Practice in Community and Family Health</td>
<td>3</td>
<td>PH</td>
<td>CFH</td>
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<tr>
<td>PHC 7317</td>
<td>Risk Communication in Public Health</td>
<td>2</td>
<td>PH</td>
<td>CFH</td>
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<tr>
<td>PHC 7368</td>
<td>Aerosol Technology in Industrial Hygiene</td>
<td>3</td>
<td>PH</td>
<td>EOH Admission to Ph.D. program or CI.</td>
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</table>

- Examines the existing epidemiologic data pertaining to the health effects of specific occupational exposures and the epidemiologic methods involved in the conduct of occupational studies.
- The many facets of clinical trials will be covered including study design, ethics, monitoring, and analysis. Real datasets will be used to provide the student with the opportunity to learn database management and data analysis using SAS.
- This course introduces students to both theoretical and practical problems in specialized advanced topics in Biostatistics. Alternate topics include Applied Multivariate Statistics, Nonparametric Methods, Spatial Statistics in Health Sciences and Advanced Sampling Design. Students can take this course repeatedly.
- This course provides a broad foundation in modern biostatistical computing methods relevant to public health research. It prepares Ph.D. students with advanced computing skills for dissertation research. Topics include algorithms in matrix algebra, Newton Raphson, Fisher's scoring, the EM algorithm, bootstrap, random number generation, Monte Carlo Markov Chain, and data augmentation.
- This course is a discussion of recent development of methods for analysis of longitudinal data. Covered topics include generalized estimating equations, mixed effects models, hierarchal models.
- This course covers the foundation of biostatistical inference, required for biostatistic program. Topics include likelihood theory, modern Bayes theory, estimation and testing, non-parametric theory.
- This course addresses advanced topics of survival data analysis. Topics include recurrence multiple events and faulty models. Counting process based theory is discussed. Real data sets are used for illustration.
- The course provides an in-depth coverage of the theory of generalized linear models with application in public health. Topics covered are numerical algorithms, exponential family modeling checking, logistic regression, loglinear models, estimating equations.
- This course is designed to prepare students to critically analyze issues and develop skills pertaining to effective policy development and practice in community and family health public health programs.
- Communicating with the public about environmental and occupational health risks that affect individuals, families, and communities is a central task facing public health professionals. Analyzes the structure, function, content and process of risk communication in order to maximize effective, responsible and ethical public interaction and to describe the issues related to the legal implementation of risk communication in public health organizations.
- An advanced study of the properties, behavior, and measurement of aerosols, including the physical and chemical principles affecting behavior. Various applications of aerosol technology in industrial hygiene will be investigated, including inhalation and deposition of aerosols, aerosol sampling, and control.
<table>
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<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
<th>Prerequisites</th>
<th>Description</th>
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<tbody>
<tr>
<td>PHC 7417</td>
<td>Family Systems and Public Health</td>
<td>3</td>
<td>PH</td>
<td>Intended for doctoral students in Community and Family Health interested in social and behavioral theories of family and health behavior. Covers an array of theoretical perspectives related to the process, structure and function of systems. Examines the human values associated with intimate and non-intimate relationships that comprise healthy relational settings. Implications of these conceptual and theoretical frames for public health issues will be discussed.</td>
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<tr>
<td>PHC 7509</td>
<td>Theoretical Foundations Community and Family Health</td>
<td>3</td>
<td>PH</td>
<td>This course is designed for beginning public health doctoral students specializing in Community and Family Health to encourage scholarly discourse of pertinent concepts, theories, and paradigms, and the critical analysis of related scholarly works.</td>
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<tr>
<td>PHC 7703</td>
<td>Advanced Research Methods in Epidemiology</td>
<td>3</td>
<td>PH, EPB</td>
<td>Course emphasizes summary and statistical analysis of data. Methods include life tables, logistic and proportional hazards regression, assessment of confounding, interaction, and bias. Includes a two-hour weekly computer lab.</td>
</tr>
<tr>
<td>PHC 7708</td>
<td>Applied Research Methods in Community and Family Health</td>
<td>3</td>
<td>PH</td>
<td>A detailed study of philosophical questions and applied techniques of research in community and family health. A project oriented course to prepare students to conduct their own independent research.</td>
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<tr>
<td>PHC 7709</td>
<td>Case Studies in the Quantitative Analysis of Public Health Data</td>
<td>3</td>
<td>PH</td>
<td>Focuses on training students in public health applications of multivariate analytic techniques including factor analysis, regression analysis, multivariate analysis of variance, event history analysis, multi-level modeling and structural equation modeling.</td>
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<tr>
<td>PHC 7908</td>
<td>Specialized Study in Public Health</td>
<td>1-9</td>
<td>PH</td>
<td>Demonstration of an in-depth study in a specialized public health area. This study may be used to address areas where a student needs to demonstrate a higher level of competency.</td>
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<tr>
<td>PHC 7910</td>
<td>Directed Research</td>
<td>1-19</td>
<td>PH</td>
<td>Advanced research design and application.</td>
</tr>
<tr>
<td>PHC 7931</td>
<td>Advanced Interdisciplinary Seminar in Public Health</td>
<td>1-3</td>
<td>PH</td>
<td>Students, faculty and other health professionals will participate in presenting and discussing contemporary health issues and possible solutions.</td>
</tr>
<tr>
<td>PHC 7934</td>
<td>Writing for Scholarly Publication in Health Science</td>
<td>3</td>
<td>PH</td>
<td>The purpose of this course is for the development of skills that culminate in publishable works in health-related journals and other related publications. There will be an emphasis on writing, editing, reviewing and other applicable skills.</td>
</tr>
<tr>
<td>PHC 7935</td>
<td>Special Topics In Public Health</td>
<td>1-3</td>
<td>PH</td>
<td>Content will include recent or current issues in public health.</td>
</tr>
<tr>
<td>PHC 7980</td>
<td>Dissertation</td>
<td>2-19</td>
<td>PH</td>
<td>A general survey of the 20th century continental schools of phenomenology, ontology, and hermeneutics, with special emphasis on the works of Husserl and Heidegger.</td>
</tr>
<tr>
<td>PHH 6265</td>
<td>Continental Philosophy I: Phenomenology to Hermeneutics</td>
<td>3</td>
<td>AS, PHI</td>
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<tr>
<td>PHH 6266</td>
<td>Continental Philosophy II: Political Theory and</td>
<td>3 AS</td>
<td>PHI</td>
<td>A general survey of the 20th century continental social and political theory, dealing with both the younger and the older generations of the Critical Theory tradition, together with their contemporaries and critics.</td>
</tr>
<tr>
<td></td>
<td>Continental Social Theory</td>
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<tr>
<td>PHH 6267</td>
<td>Continental Philosophy III: From Structuralism to</td>
<td>3 AS</td>
<td>PHI</td>
<td>An examination of leading philosophical texts in 20th century continental philosophical movements known as structuralism, post-structuralism, postmodernism, and deconstruction, with special emphasis on the works of Michel Foucault and Jacques Derrida.</td>
</tr>
<tr>
<td></td>
<td>Deconstructionism</td>
<td></td>
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<tr>
<td>PHH 6938</td>
<td>Seminar in the History of Philosophy</td>
<td>3 AS</td>
<td>PHI</td>
<td>A seminar in the history of philosophy. The instructor will determine the subject matter. Variable titles: Ancient, Modern, Recent, Contemporary.</td>
</tr>
<tr>
<td>PHI 6105</td>
<td>Seminar in Logic</td>
<td>3 AS</td>
<td>PHI</td>
<td>Foundations and basic problems of logical theory. Seminar format.</td>
</tr>
<tr>
<td>PHI 6155</td>
<td>Modal Logic</td>
<td>3 AS</td>
<td>PHI</td>
<td>A study of the main systems of Modal Logic together with their metatheory, with considerable attention to the varieties of modality.</td>
</tr>
<tr>
<td>PHI 6305</td>
<td>Seminar in Epistemology</td>
<td>3 AS</td>
<td>PHI</td>
<td>An analysis of recent and contemporary problems of knowledge. Seminar format.</td>
</tr>
<tr>
<td>PHI 6405</td>
<td>Seminar in the Philosophy of Natural Science</td>
<td>3 AS</td>
<td>PHI</td>
<td>A study of the nature and status of physical theories, some basic problems associated with scientific methodology, and the philosophical implications of modern science. Seminar format.</td>
</tr>
<tr>
<td>PHI 6425</td>
<td>Seminar in the Philosophy of Social Science</td>
<td>3 AS</td>
<td>PHI</td>
<td>Philosophical issues arising in the social sciences; value assumptions, laws and the theories, models, etc. Seminar format.</td>
</tr>
<tr>
<td>PHI 6506</td>
<td>Seminar in Metaphysics</td>
<td>3 AS</td>
<td>PHI</td>
<td>In this course students will examine selected topics in classical and contemporary metaphysics, for example, the concept and categories of Being or existence, the existence of God, the problem of universals or general terms, the a priori, the mind-body problem, and the identity thesis.</td>
</tr>
<tr>
<td>PHI 6605</td>
<td>Seminar in Ethics</td>
<td>3 AS</td>
<td>PHI</td>
<td>Advanced study of the problems of moral philosophy.</td>
</tr>
<tr>
<td>PHI 6634</td>
<td>Seminar in Biomedical Ethics</td>
<td>3 AS</td>
<td>PHI</td>
<td>A focused examination of a particular topic in biomedical ethics such as clinical bioethics, healthcare organizational ethics, philosophy of medicine, medical ethics and law, or medical ethics and conflict resolution.</td>
</tr>
<tr>
<td>PHI 6665</td>
<td>Metaethics</td>
<td>3 AS</td>
<td>PHI</td>
<td>A study of alternative theories of metaethics including emotivism, moral point of view, supererogate virtue theory.</td>
</tr>
<tr>
<td>PHI 6706</td>
<td>Seminar in the Philosophy of Religion</td>
<td>3 AS</td>
<td>PHI</td>
<td>An analysis of fundamental religious concepts in terms of contemporary philosophy. Seminar format.</td>
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<tr>
<td>Code</td>
<td>Course Title</td>
<td>Credits</td>
<td>Type</td>
<td>Prerequisites</td>
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<tr>
<td>PHI</td>
<td>Seminar in Aesthetics</td>
<td>3</td>
<td>AS</td>
<td>PHI</td>
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<tr>
<td>PHI</td>
<td>Directed Research</td>
<td>1-19</td>
<td>AS</td>
<td>PHI</td>
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<tr>
<td>PHI</td>
<td>Selected Topics</td>
<td>1-3</td>
<td>AS</td>
<td>PHI</td>
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<tr>
<td>PHI</td>
<td>Graduate Instruction Methods</td>
<td>1-3</td>
<td>AS</td>
<td>PHI</td>
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<tr>
<td>PHM</td>
<td>Seminar in Social Philosophy</td>
<td>3</td>
<td>AS</td>
<td>PHI</td>
</tr>
<tr>
<td>PHM</td>
<td>Seminar in Political Philosophy</td>
<td>3</td>
<td>AS</td>
<td>PHI</td>
</tr>
<tr>
<td>PHM</td>
<td>Seminar in the Philosophy of Law</td>
<td>3</td>
<td>AS</td>
<td>PHI</td>
</tr>
<tr>
<td>PHM</td>
<td>Seminar in the Philosophy of History</td>
<td>3</td>
<td>AS</td>
<td>PHI</td>
</tr>
<tr>
<td>PHM</td>
<td>Seminar in Development Ethics</td>
<td>3</td>
<td>AS</td>
<td>PHI</td>
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<tr>
<td>PHP</td>
<td>Plato</td>
<td>3</td>
<td>AS</td>
<td>PHI</td>
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<td>PHP</td>
<td>Aristotle</td>
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<td>Course Title</td>
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<td>PHP 6415</td>
<td>Kant</td>
<td>3 AS</td>
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<td>PHT 6391C</td>
<td>Foundational Science IV</td>
<td>2 MD</td>
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<tr>
<td>PHT 6392C</td>
<td>Foundational Science V</td>
<td>1 MD</td>
<td>PHT</td>
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<td>PHT 6521</td>
<td>Professional Issues IV</td>
<td>3 MD</td>
<td>PHT</td>
<td></td>
</tr>
<tr>
<td>PHT 6522</td>
<td>Professional Issues V</td>
<td>2 MD</td>
<td>PHT</td>
<td></td>
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<tr>
<td>PHT 6731</td>
<td>Patient/Client Management IV</td>
<td>3 MD</td>
<td>PHT</td>
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<tr>
<td>PHT 6732</td>
<td>Advanced Patient/Client Management II</td>
<td>2 MD</td>
<td>PHT</td>
<td></td>
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<tr>
<td>PHT 6735C</td>
<td>Physical Therapy Science IV</td>
<td>4 MD</td>
<td>PHT</td>
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<tr>
<td>PHT 6736C</td>
<td>Advanced Physical Therapy Science II</td>
<td>2 MD</td>
<td>PHT</td>
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<tr>
<td>PHT 6823</td>
<td>Clinical Education II</td>
<td>17 MD</td>
<td>PHT</td>
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<tr>
<td>PHY 6246</td>
<td>Classical Mechanics</td>
<td>3 AS</td>
<td>PHY</td>
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<td>Credits</td>
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<td>Prerequisites</td>
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<tr>
<td>PHY 6446</td>
<td>Lasers and Applications</td>
<td>3</td>
<td>AS</td>
<td>PHY PR: PHY 4324 and PHY 4604 or CI.</td>
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<tr>
<td>PHY 6447</td>
<td>Physics of Lightwave Devices and Applications</td>
<td>3</td>
<td>AS</td>
<td>PHY PR: PHY 6446 or CI.</td>
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<tr>
<td>PHY 6645</td>
<td>Quantum Mechanics I</td>
<td>3</td>
<td>AS</td>
<td>PHY PR: PHY 4604 or CI.</td>
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<tr>
<td>PHY 6646</td>
<td>Applied Quantum Mechanics</td>
<td>3</td>
<td>AS</td>
<td>PHY PR: PHY 6645 or CI.</td>
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<tr>
<td>PHY 6909</td>
<td>Independent Study</td>
<td>1-19</td>
<td>AS</td>
<td>PHY PR: CI.</td>
</tr>
<tr>
<td>PHY 6911</td>
<td>Directed Research</td>
<td>1-19</td>
<td>AS</td>
<td>PHY PR: GS.</td>
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<td>PHY 6935</td>
<td>Graduate Seminar</td>
<td>1</td>
<td>AS</td>
<td>PHY PR: CI. All Physics graduate students are expected to enroll in this course at least once.</td>
</tr>
<tr>
<td>PHY 6938</td>
<td>Selected Topics in Physics</td>
<td>1-10</td>
<td>AS</td>
<td>PHY PR: CI.</td>
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<tr>
<td>PHY 6940</td>
<td>Supervised Teaching</td>
<td>3</td>
<td>AS</td>
<td>PHY PR: Dept. Approval Required.</td>
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<tr>
<td>PHY 6971</td>
<td>Thesis: Master's</td>
<td>2-19</td>
<td>AS</td>
<td>PHY PR: CI.</td>
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<td>PHY 7910</td>
<td>Directed Research</td>
<td>1-9</td>
<td>AS</td>
<td>PR: Graduate Ph.D. level.</td>
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<tr>
<td>PHZ 6136</td>
<td>Physical Applications of Group Theory</td>
<td>3</td>
<td>AS</td>
<td>PR: CI</td>
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<tr>
<td>PHZ 6204</td>
<td>Atomic and Molecular Spectra I</td>
<td>3</td>
<td>AS</td>
<td>PR: PHY 4604 or Cl.</td>
</tr>
<tr>
<td>PHZ 6205</td>
<td>Atomic And Molecular Spectra II</td>
<td>3</td>
<td>AS</td>
<td>PR: PHZ 6204 or Cl.</td>
</tr>
<tr>
<td>PHZ 6426</td>
<td>Solid State Physics II</td>
<td>3</td>
<td>AS</td>
<td>PR: PHZ 5405 or Cl.</td>
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<tr>
<td>PHZ 6525</td>
<td>Plasma Physics II</td>
<td>3</td>
<td>AS</td>
<td>PR: PHZ 5505 or Cl.</td>
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<tr>
<td>POS 6045</td>
<td>Seminar in American Government &amp; Politics</td>
<td>3</td>
<td>AS</td>
<td>POL Sr./GS.</td>
</tr>
<tr>
<td>POS 6127</td>
<td>Issues in State Government and Politics</td>
<td>3</td>
<td>AS</td>
<td>POL GS.</td>
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<tr>
<td>POS 6157</td>
<td>Seminar in Urban Government and Politics</td>
<td>3</td>
<td>AS</td>
<td>POL GS.</td>
</tr>
<tr>
<td>POS 6415</td>
<td>The American Presidency</td>
<td>3</td>
<td>AS</td>
<td>POL GS.</td>
</tr>
<tr>
<td>POS 6427</td>
<td>The Legislative Process</td>
<td>3</td>
<td>AS</td>
<td>POL GS.</td>
</tr>
<tr>
<td>POS 6455</td>
<td>Political Parties and Interest Groups</td>
<td>3</td>
<td>AS</td>
<td>POL GS.</td>
</tr>
<tr>
<td>Course Code</td>
<td>Course Title</td>
<td>Credits</td>
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<tr>
<td>POS 6607</td>
<td>Constitutional Law</td>
<td>3</td>
<td>POL</td>
<td>PR: GS.</td>
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<tr>
<td>POS 6698</td>
<td>Seminar in Law and Politics</td>
<td>3</td>
<td>POL</td>
<td>PR: GS.</td>
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<tr>
<td>POS 6735</td>
<td>Foundations of Political Inquiry</td>
<td>3</td>
<td>POL</td>
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<tr>
<td>POS 6736</td>
<td>Political Research Methods</td>
<td>3</td>
<td>POL</td>
<td>PR: POS 3713 or equiv.</td>
</tr>
<tr>
<td>POS 6909</td>
<td>Independent Study</td>
<td>1-3</td>
<td>POL</td>
<td>PR: 3.0 in Political Science, CC. S/U.</td>
</tr>
<tr>
<td>POS 6919</td>
<td>Directed Research</td>
<td>1-19</td>
<td>POL</td>
<td>PR: GR. ML. S/U.</td>
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<tr>
<td>POS 6933</td>
<td>Selected Topics in Political Science</td>
<td>3</td>
<td>POL</td>
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<tr>
<td>POS 6942</td>
<td>Field Work in Political Science</td>
<td>1-3</td>
<td>POL</td>
<td>PR: 3.0 in Political Science and GS.</td>
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<tr>
<td>POS 6971</td>
<td>Thesis: Master's</td>
<td>2-19</td>
<td>POL</td>
<td>PR: CC. S/U.</td>
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<tr>
<td>POT 6007</td>
<td>Seminar in Political Theory</td>
<td>3</td>
<td>POL</td>
<td>PR: GS.</td>
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<tr>
<td>PPE 6058</td>
<td>Personality</td>
<td>3</td>
<td>PSY</td>
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<tr>
<td>PSB 6056</td>
<td>Physiological Psychology</td>
<td>3</td>
<td>PSY</td>
<td>PR: Admission to graduate program in Psychology or CI.</td>
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<tr>
<td>PSY 6217</td>
<td>Research Methods and Measurement</td>
<td>2-4</td>
<td>PSY</td>
<td>PR: CI.</td>
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<td>Department</td>
<td>Prerequisites</td>
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<tr>
<td>PSY 6605C</td>
<td>History and Systems of Psychology</td>
<td>2</td>
<td>PSY</td>
<td>PR: Admission to graduate program in Psychology or CI.</td>
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<tr>
<td>PSY 6907</td>
<td>Independent Study</td>
<td>1-19</td>
<td>PSY</td>
<td>PR: Majors only. S/U.</td>
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<tr>
<td>PSY 6917</td>
<td>Directed Research</td>
<td>1-19</td>
<td>PSY</td>
<td>PR: GR. ML., CC. S/U.</td>
</tr>
<tr>
<td>PSY 6946</td>
<td>Practicum and Internship in Clinical Psychology</td>
<td>1-15</td>
<td>PSY</td>
<td>PR: CL</td>
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<tr>
<td>PSY 6947</td>
<td>Graduate Instruction Methods</td>
<td>1-3</td>
<td>PSY</td>
<td>PR: CL S/U.</td>
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<tr>
<td>PSY 6971</td>
<td>Thesis: Master's</td>
<td>2-19</td>
<td>PSY</td>
<td>PR: CC S/U.</td>
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<tr>
<td>PSY 7908</td>
<td>Directed Readings in Psychology</td>
<td>1-15</td>
<td>PSY</td>
<td>PR: CL.</td>
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<tr>
<td>PSY 7931</td>
<td>Seminar in Ethics and Professional Problems</td>
<td>2</td>
<td>PSY</td>
<td>PR: Second year in Ph.D. program in Psychology or CI.</td>
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<tr>
<td>PUP 6007</td>
<td>Seminar in Public Policy</td>
<td>3</td>
<td>POL</td>
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<tr>
<td>PUR 6602</td>
<td>Public Relations Management</td>
<td>3</td>
<td>COM</td>
<td>PR: GS in Mass Communications or CI.</td>
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<tr>
<td>PUR 6603</td>
<td>Public Relations Counseling</td>
<td>3</td>
<td>COM</td>
<td>PR: CC.</td>
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</table>

A review of the history of modern psychology with emphasis on the major systematic approaches that have influenced the current structure of psychology. Persisting polarities and common underlying issues are studied in various historical contexts.

Independent study in which student must have a contract with an instructor.

Supervised training in community and university settings in the application of Psychology.

Special course to be used primarily for the training of teaching assistants.

An advanced reading program of selected topics in Psychology under the supervision of a Psychology faculty member. The reading program is designed to meet the individual requirements and interest of graduate students in Psychology, with selected topics chosen by the student in close collaboration with a faculty member.

Ethical issues and professional problems in the practice of psychology.

Examination of public policy from a theoretical and practical decision. Analysis will be presented in terms of their usefulness in designing policy.

Explores the wide body of social science theory that is the foundation of a successful public relations program in organization. Focuses on the use of public relations as strategic planning function concerned with building long-term beneficial relationships between the organization and its external and internal publics.

Relationship of the public relations counselor to the client or employer; counseling in corporate, non-profit, and governmental organizations; writing and presenting PR programs to the client; management and operation of counseling firms.
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Hours</th>
<th>Degree(s)</th>
<th>Prerequisites</th>
<th>Description</th>
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<tr>
<td>QMB 6305</td>
<td>Managerial Decision Analysis</td>
<td>2</td>
<td>BA, MBA</td>
<td></td>
<td>A study of the general concepts of interval estimation, hypothesis testing, correlation and multiple regression with an emphasis on applications, concepts and interpretation of results.</td>
</tr>
<tr>
<td>QMB 6365</td>
<td>Applied Business Forecasting</td>
<td>3</td>
<td>BA, QMB</td>
<td>PR: QMB 6305 or equiv., CC.</td>
<td>Logic and application of quantitative forecasting, techniques to problems in business.</td>
</tr>
<tr>
<td>QMB 6375</td>
<td>Applied Linear Statistical Models</td>
<td>3</td>
<td>BA, QMB</td>
<td>PR: QMB 6305 or equiv., CC.</td>
<td>A study of multivariate data analysis techniques and their applications to problems and systems in business.</td>
</tr>
<tr>
<td>QMB 6603</td>
<td>Operations Management and Quality Enhancement</td>
<td>2</td>
<td>BA, MBA</td>
<td>PR: GS and college algebra.</td>
<td>Principles of managing manufacturing and service organizations. Topics include: competitive use of operations, comprehensive manufacturing strategies, production system design, material requirements planning, JIT systems, quality management, statistical process control, and project management.</td>
</tr>
<tr>
<td>QMB 7565</td>
<td>Introduction to Research Methods</td>
<td>3</td>
<td>BA, QMB</td>
<td>PR: CC.</td>
<td>A course in research strategies, design, analysis, and measurement for business research.</td>
</tr>
<tr>
<td>QMB 7566</td>
<td>Applied Multivariate Statistical Methods</td>
<td>3</td>
<td>BA, QMB</td>
<td>PR: CC.</td>
<td>A course in research analysis and measurement focusing on multivariate statistical analysis techniques.</td>
</tr>
<tr>
<td>RCS 6220</td>
<td>Individual Evaluation and Assessment</td>
<td>3</td>
<td>AS, REH</td>
<td>PR: RCS 5080, RCS 5780, RCS 6470.</td>
<td>Examines assessment procedures utilized in rehabilitation and mental health counseling settings and critical issues in the evaluation of people who are mentally and physically disabled.</td>
</tr>
<tr>
<td>RCS 6301</td>
<td>Career and Lifestyle Assessment</td>
<td>3</td>
<td>AS, REH</td>
<td>PR: RCS 5080, RCS 5035, RCS 5020, RCS 6470</td>
<td>Career development, lifestyle, and related factors with special emphasis on the needs of individuals with disabilities. Includes job placement and a survey of work requirements in different occupations and how these relate to functional limitations.</td>
</tr>
<tr>
<td>RCS 6407</td>
<td>Counseling Theories and Practice</td>
<td>3</td>
<td>AS, REH</td>
<td>PR: RCS 5020, RCS 5035, RCS 5080, RCS 6470</td>
<td>An extension and intensification of the rehabilitation and mental health counseling skills developed in RCS 5404. Includes the study of counseling theories and their contribution to successful counseling and rehabilitation practice.</td>
</tr>
<tr>
<td>RCS 6408</td>
<td>Diagnosis and Treatment of Psychopathology</td>
<td>3</td>
<td>AS, REH</td>
<td>PR: RCS 5020, RCS 6470, RCS 5080, RCS 5035. Majors Only.</td>
<td>Psychopathology as applied to psychotherapy and case management in mental health, addictions, and other rehabilitation settings.</td>
</tr>
<tr>
<td>RCS 6455</td>
<td>Practicum in Counseling</td>
<td>3</td>
<td>AS, REH</td>
<td>PR: RCS 5080, RCS 5020, RCS 6470, RCS 5035.</td>
<td>Field work experience in rehabilitation mental health counseling.</td>
</tr>
<tr>
<td>RCS 6459</td>
<td>Substance Abuse II</td>
<td>3</td>
<td>AS, REH</td>
<td>PR: RCS 5450 and CI.</td>
<td>An extension of RCS 5450 with emphasis on family problems and approaches to counseling and working with alcohol and other substance abuse.</td>
</tr>
<tr>
<td>RCS 6470</td>
<td>Social and Cultural Foundations of Counseling</td>
<td>3</td>
<td>AS, REH</td>
<td>PR: RCS 5780 or CC.</td>
<td>Counseling issues in a multicultural and diverse society. Special emphasis on psychosocial adjustment and counseling for individuals with physical and mental disabilities.</td>
</tr>
<tr>
<td>Course Code</td>
<td>Course Title</td>
<td>Hours</td>
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<tr>
<td>RCS 6510</td>
<td>Group Theories and Practice</td>
<td>3</td>
<td>AS</td>
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<td>PR: RCS 5035, RCS 5080, RCS 5020, RCS 6470.</td>
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<tr>
<td>RCS 6740</td>
<td>Research and Program Evaluation</td>
<td>3</td>
<td>AS</td>
<td>REH</td>
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<td>PR: RCS 5780.</td>
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<tr>
<td>RCS 6825</td>
<td>Internship</td>
<td>3</td>
<td>AS</td>
<td>REH</td>
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<td></td>
<td>PR: CP, All required courses in M.A. program., CC. S/U.</td>
<td>Student placement in an approved intern setting for a minimum of 600 hours of supervised experience.</td>
</tr>
<tr>
<td>RCS 6906</td>
<td>Independent Study</td>
<td>1-19</td>
<td>AS</td>
<td>REH</td>
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<td>PR: CC. S/U.</td>
<td>Independent study where the student must have a contract with a faculty member.</td>
</tr>
<tr>
<td>RCS 6930</td>
<td>Seminar in Rehabilitation Counseling</td>
<td>1-4</td>
<td>AS</td>
<td>REH</td>
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<td>PR: CI.</td>
<td>Selected issues and problems in rehabilitation counseling with subject and scope to be determined by instructor.</td>
</tr>
<tr>
<td>RCS 6970</td>
<td>Thesis: Master's</td>
<td>2-19</td>
<td>AS</td>
<td>REH</td>
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<td>PR: CC. S/U.</td>
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<tr>
<td>RED 6116</td>
<td>Current Trends in Elementary Reading Instruction</td>
<td>3</td>
<td>ED</td>
<td>EDE</td>
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<td></td>
<td>PR: RED 4310 or equiv. Not to be used as a first course in reading.</td>
<td>Approaches, materials, and procedures in Elementary Reading instruction, with emphasis on pertinent research.</td>
</tr>
<tr>
<td>RED 6247</td>
<td>District and School Level Supervision in Literacy</td>
<td>3</td>
<td>ED</td>
<td>EDR</td>
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<tr>
<td></td>
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<td>PR: LAE 6315, RED 6544, RED 6545, RED 6747.</td>
<td>District and School Level Supervision in Literacy familiarizes students with issues related to the organization and monitoring of elementary and secondary reading programs at the school and district levels, with an emphasis on the former.</td>
</tr>
<tr>
<td>RED 6365</td>
<td>Reading In Secondary And Higher Education</td>
<td>3</td>
<td>ED</td>
<td>EDR</td>
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<td></td>
<td>Designed for student and inservice teachers with appropriate B.A. degrees. Content covers secondary, community college, and university levels. Organization permits student to work on applications to individual levels and disciplines. Research paper required.</td>
</tr>
<tr>
<td>RED 6449</td>
<td>Literacy and Technology</td>
<td>3</td>
<td>ED</td>
<td>EDR</td>
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<td>Literacy and Technology focuses on technology as a tool for literacy instruction. Throughout the course, students will preview and evaluate literacy-related software and websites, critique research related to literacy and technology, and design, develop, and present software programs for literacy learning and instruction.</td>
</tr>
<tr>
<td>RED 6516</td>
<td>Corrective Reading in the Classroom</td>
<td>3</td>
<td>ED</td>
<td>EDR</td>
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<tr>
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<td>PR: RED 4310 or CI.</td>
<td>Use of diagnostic and prescriptive procedures with individual and group reading instruction.</td>
</tr>
<tr>
<td>RED 6540</td>
<td>Assessment in Literacy</td>
<td>3</td>
<td>ED</td>
<td>EDR</td>
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<td>PR: LAE 6315, RED 6544, RED 6545, RED 6747.</td>
<td>RED 6540 is a three credit graduate level course which focuses on methods of analysis of children's literacy and strategies for promoting language, reading and writing development. Authentic literacy assessment in classroom and other instructional environments, informal assessment and diagnosis, and standardized tests will be utilized in evaluation of the multiple factors in reading, writing and language process and problems.</td>
</tr>
<tr>
<td>Course Code</td>
<td>Course Title</td>
<td>Credits</td>
<td>Prerequisites</td>
<td>Description</td>
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<tr>
<td>RED 6544</td>
<td>Cognition, Comprehension, and Content Area Reading: Remediation of Reading</td>
<td>3</td>
<td>ED EDR</td>
<td>In-depth study of reading comprehension. Emphasis is placed on discussion of the concepts of cognition and learning, metamemory and comprehension of text included in the reading process. Process in the reading/writing, connection, specific reading strategies, and procedures for comprehension of text in the content areas are presented.</td>
<td></td>
</tr>
<tr>
<td>RED 6545</td>
<td>Issues in Vocabulary and Word Study</td>
<td>3</td>
<td>ED EDR</td>
<td>The purpose of this course is to provide students with an understanding of current theory and research about reading and writing vocabulary instruction and the interactive causes of literacy disabilities.</td>
<td></td>
</tr>
<tr>
<td>RED 6747</td>
<td>History and Models of Reading</td>
<td>3</td>
<td>ED EDR PR: EDF 6432, EDF 6481, or CI.</td>
<td>History and Models of Reading introduces graduate students to the historical background of professional approaches to literacy as well as the current models that guide literacy research, theory and instruction. With a focus on historical antecedents, students in the course learn the connections between current research and practice, and former models and their related instructional practices. In a larger framework, the course connects students with the relationships between reading practices and the larger social movements that contextualize them.</td>
<td></td>
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<tr>
<td>RED 6786</td>
<td>Teacher Research Methods in Reading</td>
<td>3</td>
<td>ED EDR PR: RED 6747, RED 6545, RED 6544, RED 6247, RED 6449.</td>
<td>Teacher Research Methods in Reading familiarizes students with the application of classroom action research methodologies in literacy. Course content is directed toward developing understandings of the need for teacher research and a mindset for becoming a teacher researcher. Students will develop a knowledge base in quantitative, qualitative, case study, and portfolio-based research methodologies for teachers.</td>
<td></td>
</tr>
<tr>
<td>RED 6846</td>
<td>Practicum in Reading</td>
<td>3</td>
<td>ED EDR PR: RED 6747, RED 6545, RED 6544, RED 6540, or CI.</td>
<td>Practicum in Reading is a graduate course covering topics and issues relevant to assessment and remediation of reading problems in school-aged children. It is an application course, where students work at a school site with children who are experiencing reading problems.</td>
<td></td>
</tr>
<tr>
<td>RED 6906</td>
<td>Independent Study: Reading Education</td>
<td>1-6</td>
<td>ED EDR S/U.</td>
<td>Independent study in which students must have a contract with an instructor.</td>
<td></td>
</tr>
<tr>
<td>RED 6971</td>
<td>Thesis: Masters/Educational Specialist</td>
<td>2-19</td>
<td>ED EDR</td>
<td></td>
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<tr>
<td>RED 7048</td>
<td>Reading as a Symbolic Process</td>
<td>3</td>
<td>ED EDR PR: RED 6116 or RED 6365, GS or DPR.</td>
<td>Seminar designed to develop critical thinking about the reading process and reading acquisition.</td>
<td></td>
</tr>
<tr>
<td>RED 7745</td>
<td>Research in Reading Instruction</td>
<td>3</td>
<td>ED EDR PR: RED 6116 or RED 6365, GS or DPR.</td>
<td>Seminar examining in depth the current research on instruction in the field of reading education.</td>
<td></td>
</tr>
<tr>
<td>RED 7910</td>
<td>Directed Research in Reading/Language Arts</td>
<td>1-19</td>
<td>ED EDR PR: Advanced graduate standing.</td>
<td>Independent student-faculty research course.</td>
<td></td>
</tr>
<tr>
<td>RED 7938</td>
<td>Advanced Graduate Seminar in Reading/Language Arts</td>
<td>1-3</td>
<td>ED EDR PR: Enrollment in at least 3 hours is required for each doctoral student.</td>
<td>Discussion and evaluation of current issues and research in Reading/Language Arts and related fields. Rpt. To 6 hours.</td>
<td></td>
</tr>
<tr>
<td>Course</td>
<td>Title</td>
<td>Credits</td>
<td>Department</td>
<td>Description</td>
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<tr>
<td>RED 7980</td>
<td>Dissertation: Doctoral</td>
<td>2-30</td>
<td>ED</td>
<td>Admission to Candidacy. An introduction to and research methods used in Religious Studies proper and those of other disciplines. In the former are to be found comparative religion, religious hermeneutics, and theological analysis. Among the latter are included comparative literature, literary criticism, sociology, philosophy, and historiography.</td>
<td></td>
</tr>
<tr>
<td>REL 6126</td>
<td>Religion in America</td>
<td>3</td>
<td>AS</td>
<td>REL</td>
<td>Scholarly study of religion in its complex relationship of culture and society, including definitions and theories of religion, research methods, becoming religious, social organization, and interconnections with other social institutions.</td>
</tr>
<tr>
<td>REL 6143</td>
<td>Religion, Culture, and Society</td>
<td>3</td>
<td>AS</td>
<td>REL</td>
<td>This seminar will explore the relation between religion, ethics, the social sciences, and social policy. Problems of ideological conflict and ethical relativism will be examined, as well as possible religious and theoretical foundations for a normative ethics of social change.</td>
</tr>
<tr>
<td>REL 6175</td>
<td>Religion, Ethics and Public Policy</td>
<td>3</td>
<td>AS</td>
<td>REL</td>
<td>This seminar explores key issues and the diverse methodological approaches to the comparative study of religious ethics, including history of religions, social scientific, philosophical and theological approaches.</td>
</tr>
<tr>
<td>REL 6178</td>
<td>Comparative Religious Ethics</td>
<td>3</td>
<td>AS</td>
<td>REL</td>
<td>A seminar course examining the history of Western thinking about morality and its relation to religion. Concepts including faith, reason, right and wrong, values, virtue, duty, obligation, rights, and justice are explored in light of theories about the nature of morality.</td>
</tr>
<tr>
<td>REL 6182</td>
<td>Faith and Reason in Western Religious Ethics</td>
<td>3</td>
<td>AS</td>
<td>REL</td>
<td>This course will explore the unique characteristics of modern and post-modern civilization, with special attention given to the secularizing effects of modern science, technology, economics, and politics on the world’s religions and their various responses to these factors.</td>
</tr>
<tr>
<td>REL 6195</td>
<td>Religion and Modernization</td>
<td>3</td>
<td>AS</td>
<td>REL</td>
<td>A study of various problems in Biblical Archaeology including excavation techniques, principles of interpretation, problems in correlation of the text of the Bible and specific finds, chronology, reconstruction of culture from archaeological evidence, and others.</td>
</tr>
<tr>
<td>REL 6327</td>
<td>Seminar: Ancient Religions and Literatures</td>
<td>3</td>
<td>AS</td>
<td>REL</td>
<td>Examines some of the most important religious literature of the Western world -- Jewish, Christian, and Islamic -- attempting to understand each classical expression within its own historical and cultural context.</td>
</tr>
<tr>
<td>REL 6328</td>
<td>Religion and Culture of the West</td>
<td>3</td>
<td>AS</td>
<td>REL</td>
<td>A critical examination of Third World, Black American, and Feminist Liberation Theologies of the Christian tradition.</td>
</tr>
</tbody>
</table>
The History of Judaism: The Formative Age

Independent Study

Directed Research

Special Topics in Religious Studies

Graduate Instruction Methods

Thesis: Master's

Trends in Science Instruction

Current Trends in Secondary Science Education

Research Implications for Teaching Pre-College Mathematics and Science

Technology: Solving Societal Problems

Mathematics and Science Education Policy, Change, and School Improvement

Understanding Mathematics, Science, and Technology: Human Enterprises

Independent Study in Science Education
<table>
<thead>
<tr>
<th>Code</th>
<th>Course Title</th>
<th>Credits</th>
<th>Department</th>
<th>Prerequisites</th>
<th>Description</th>
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</thead>
<tbody>
<tr>
<td>SCE 6947</td>
<td>Internship</td>
<td>6</td>
<td>EDN</td>
<td>PR: CI</td>
<td>Provides students with an extended school-based experience, under the guidance of a cooperating teacher and university supervisor, for a full semester at or near the end of their graduate program. Open to graduate degree candidates only. S/U (PR: CI)</td>
</tr>
<tr>
<td>SCE 7910</td>
<td>Directed Research in Science Education</td>
<td>1-19</td>
<td>EDN</td>
<td>PR: CI</td>
<td>This course permits a doctoral student to conduct advanced research and to pursue specific areas of interest with a faculty member as supervisor. A contract is required with the faculty member. S/U.</td>
</tr>
<tr>
<td>SCE 7980</td>
<td>Dissertation</td>
<td>2-30</td>
<td>EDN</td>
<td>PR: Admission to Candidacy</td>
<td>Provides students with knowledge of the history, philosophy, organization and structure of Student Affairs, Student Affairs functions and professional competencies, and legal and ethical issues.</td>
</tr>
<tr>
<td>SDS 6042</td>
<td>Introduction of Student Affairs</td>
<td>3</td>
<td>EDG</td>
<td></td>
<td>Study of guidance theories and practices in selected foreign countries as compared with the American guidance model. Evaluation of foreign guidance through critical analysis of primary sources. For example: guidance philosophy and practice in countries of the Soviet Bloc, Western Europe, and Latin America.</td>
</tr>
<tr>
<td>SDS 6050</td>
<td>Comparative Guidance and Counseling</td>
<td>3</td>
<td>EDG</td>
<td>PR: DPR</td>
<td>Experiential study of group structures, group dynamics, methodology, and leadership models applicable to counseling in the elementary schools. Skill building through supervised practicum in leading groups of elementary school children.</td>
</tr>
<tr>
<td>SDS 6501</td>
<td>Group Theory and Practicum: Children</td>
<td>4</td>
<td>EDG</td>
<td>PR: SDS 6411, S/U</td>
<td>The purpose of this course is to provide an overview of the history, fundamental concepts, and organization of financial aid administration. The role of financial aid in enrollment management will be addressed.</td>
</tr>
<tr>
<td>SDS 6621</td>
<td>Financial Aid Administration</td>
<td>2</td>
<td>EDG</td>
<td>PR: Acceptance to College Student Affairs Program or CI</td>
<td>Provides students with an understanding of the changing demographics, environmental and developmental issues facing college students.</td>
</tr>
<tr>
<td>SDS 6624</td>
<td>Ecology of Campus Life</td>
<td>3</td>
<td>EDF</td>
<td>PR: GS</td>
<td>Review of major auxiliary functions in Student Affairs. Includes strategic and operational issues in planning for and operating auxiliary facilities and technological innovations.</td>
</tr>
<tr>
<td>SDS 6641</td>
<td>Student Affairs Auxiliary Functions</td>
<td>3</td>
<td>EDF</td>
<td>PR: Acceptance to Student Affairs Administration Doctoral Program &amp; SDS 6042 or CI</td>
<td>An in-depth study of student development theories including those in the areas of cognitive, psychosocial and typology theories. Students will examine theoretical perspectives and learn how to apply them in practical situations encountered in higher education settings.</td>
</tr>
<tr>
<td>SDS 6645</td>
<td>Student Development Theory</td>
<td>3</td>
<td>EDF</td>
<td></td>
<td>Adresses individual and organizational issues of multiculturalism and diversity in higher education.</td>
</tr>
<tr>
<td>SDS 6701</td>
<td>Issues in Diversity</td>
<td>2</td>
<td>EDF</td>
<td>PR: Admission to CSA or CI graduate Program</td>
<td>Supervised counseling experiences for integration of knowledge and skills gained in didactic study. Focus is on working with elementary age children, parent and teachers.</td>
</tr>
<tr>
<td>SDS 6801</td>
<td>Practicum in Counseling Children</td>
<td>4</td>
<td>EDG</td>
<td>S/U.</td>
<td>Field experience involving one semester of full-time participation or two semesters of part-time participation in all guidance related activities in an elementary or secondary school; classroom guidance; individual and group counseling;</td>
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<tr>
<td>Course Code</td>
<td>Course Title</td>
<td>Credits</td>
<td>Type</td>
<td>Prerequisites</td>
<td>Description</td>
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<tr>
<td>SDS 7640</td>
<td>Student Affairs Administration</td>
<td>4 ED</td>
<td>EDF</td>
<td>PR: Acceptance to Student Affairs Administration Doctoral Program &amp; SDS 6942 or CI</td>
<td>Leadership, management and organizational models, perspectives and issues in administration of Student Affairs will be studied.</td>
</tr>
<tr>
<td>SDS 7642</td>
<td>Advanced Seminar in Student Affairs</td>
<td>1-4 ED</td>
<td>EDF</td>
<td>PR: Acceptance to Student Affairs Administration Doctoral Program or CI</td>
<td>This seminar will nurture students' creativity and enhance their appreciation for scholarly academic work and effective administrative practice in Student Affairs. Issues and trends in Student Affairs will also be studied.</td>
</tr>
<tr>
<td>SDS 7643</td>
<td>Advanced Student Development Theories</td>
<td>4 ED</td>
<td>EDF</td>
<td>PR: SDS 6645 or equivalent and acceptance to Student Affairs Administration Doctoral Program or CI</td>
<td>Contemporary theories of college student development will be examined in the categories of psychosocial, cognitive-structural, and typology. Research, case analysis, and assessment instruments will be studied in translating theoretical models into programmatic interventions in Student Affairs.</td>
</tr>
<tr>
<td>SDS 7644</td>
<td>Enrollment Management</td>
<td>4 ED</td>
<td>EDF</td>
<td>PR: Acceptance to Student Affairs Administration Doctoral Program or CI</td>
<td>Introduction to and overview of a multi-faceted process of enrollment management in higher education. The breadth of theory, models, and principles that contribute to the field of enrollment management will be explored.</td>
</tr>
<tr>
<td>SDS 7830</td>
<td>Advanced Internship in Counselor Education</td>
<td>2-8 ED</td>
<td>EDG</td>
<td>S/U.</td>
<td>Supervised field experiences in an approved agency, educational institution, or industrial setting: counseling, consulting, supervision, applied research, administration, and evaluation of counseling/guidance services.</td>
</tr>
<tr>
<td>SDS 7945</td>
<td>Advanced Internship in Student Affairs Administration</td>
<td>1-6 ED</td>
<td>EDF</td>
<td>PR: Acceptance to Student Affairs Administration Doctoral Program and completion of 25 hours or consent of Program Director</td>
<td>Supervised field experiences in an approved functional area of Student Affairs in an institution of higher education that will involve administrative functions, applied research and program evaluation.</td>
</tr>
<tr>
<td>SDS 7980</td>
<td>Dissertation</td>
<td>2-24 ED</td>
<td>EDF</td>
<td>PR: Admitted to Candidacy</td>
<td>Special course to be used primarily for the training of teaching assistants. Var. Rpt. To a total of 4 credits.</td>
</tr>
<tr>
<td>SED 6943</td>
<td>Graduate Instruction Methods</td>
<td>1-4 AS</td>
<td>SPE</td>
<td>S/U only.</td>
<td>No description provided.</td>
</tr>
<tr>
<td>SLA 7910</td>
<td>Directed Research in Second Language Acquisition/ Instructional Technology</td>
<td>1-6 ED</td>
<td>EDI</td>
<td>PR: CI.</td>
<td>This course permits a doctoral student to conduct advanced research and to pursue specific areas of interest with a faculty member as supervisor. A contract is required with the faculty member. S/U.</td>
</tr>
<tr>
<td>SLA 7911</td>
<td>Second Language Acquisition Research Laboratory</td>
<td>1-4 ED</td>
<td>EDI</td>
<td></td>
<td>This course, offered every semester, provides students with a variety of research tools and directed research experiences that eventually lead to production of publishable materials. Classes are conducted as seminars with instructor and students sharing leadership role. S/U.</td>
</tr>
<tr>
<td>SLA 7938</td>
<td>Advanced Seminar in Second Language Acquisition</td>
<td>3 ED</td>
<td>EDI</td>
<td></td>
<td>This doctoral level seminar examines in depth the theory and research in the field of Second Language Acquisition. It builds upon the information and concepts presented in introductory SLA theory courses allowing students to more deeply and carefully explore selected topics.</td>
</tr>
<tr>
<td>Course Code</td>
<td>Course Title</td>
<td>Credits</td>
<td>Department</td>
<td>Prerequisites</td>
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<tr>
<td>SOP 6068</td>
<td>Personality and Social Psychology</td>
<td>3</td>
<td>PSY</td>
<td>PR: Bachelors Degree in Psychology or related discipline.</td>
<td></td>
</tr>
<tr>
<td>SOP 6669</td>
<td>Topics in Social-Organizational Psychology</td>
<td>3</td>
<td>PSY</td>
<td>PR: CL.</td>
<td></td>
</tr>
<tr>
<td>SOP 7609</td>
<td>Graduate Seminar in Social-Organizational Psychology</td>
<td>1-3</td>
<td>PSY</td>
<td>PR: CL.</td>
<td></td>
</tr>
<tr>
<td>SOW 6105</td>
<td>Foundations in Human Behavior</td>
<td>3</td>
<td>SOK</td>
<td>PR: CC.</td>
<td></td>
</tr>
<tr>
<td>SOW 6114</td>
<td>Individual Growth and Development Theory</td>
<td>3</td>
<td>SOK</td>
<td>PR: CC.</td>
<td></td>
</tr>
<tr>
<td>SOW 6124</td>
<td>Theoretical Perspectives on Mental Dysfunction</td>
<td>3</td>
<td>SOK</td>
<td>PR: CC. Majors only.</td>
<td></td>
</tr>
<tr>
<td>SOW 6126</td>
<td>Theoretical Perspectives on Physical Dysfunction</td>
<td>2</td>
<td>SOK</td>
<td>PR: CC. Majors only.</td>
<td></td>
</tr>
<tr>
<td>SOW 6235</td>
<td>Foundations of Social Welfare Policy</td>
<td>3</td>
<td>SOK</td>
<td>PR: CC.</td>
<td></td>
</tr>
<tr>
<td>SOW 6236</td>
<td>Social Welfare Policy Analysis and Design</td>
<td>3</td>
<td>SOK</td>
<td>PR: CC.</td>
<td></td>
</tr>
<tr>
<td>SOW 6305</td>
<td>Fundamentals of Social Work Practice</td>
<td>3</td>
<td>SOK</td>
<td>PR: CC.</td>
<td></td>
</tr>
<tr>
<td>SOW 6342</td>
<td>Individual, Family and Group Treatment I</td>
<td>3</td>
<td>SOK</td>
<td>PR: CC.</td>
<td></td>
</tr>
<tr>
<td>SOW 6348</td>
<td>Clinical Practice Perspectives on Race and Culture</td>
<td>2</td>
<td>SOK</td>
<td>PR: CC.</td>
<td></td>
</tr>
</tbody>
</table>

This course is a survey of modern personality and social psychology. It will examine how personal attributes and social situations influence human behavior. Major contemporary theories of how personality and social variables individually and collectively affect human feelings, thoughts and actions will be presented.

Courses on topics, such as experimental social psychology, organizational psychology, attitudes, and group process.

Seminars on topics, such as social psychology, job stress, and decision making.

Introduces a systems perspective on understanding the relationships inherent in human growth and development. Special emphasis is placed on issues involving minorities, women, the disabled, various family forms, and sexual preference.

This course presents various theoretical perspectives in individual growth and development commonly used in clinical practice with individuals, families, and groups. Ethnic, cultural, and lifestyle differences in normative development will be addressed, as well the influence of poverty, resource deprivation, sexual stereotyping, and illness/disability on social functioning.

This third course in the behavior sequence focuses on mental and emotional disorders. Content includes broad classifications of mental and behavioral disorders and their biopsychological disorders and implications of social work practice in dealing with these disorders.

This fourth course in the behavior sequence focuses on physical disorders and implications of social work practice in the area of long-term protracted chronic illnesses and the ensuing psychosocial disabilities.

Examines historical antecedents of social welfare as an institution and current state of social welfare programs in America. Emphasis is placed on understanding social, economic, and political forces that shape policies and programs.

Presents various methods of policy analysis with emphasis on distinctions among legislative, administrative, and judicial policy. Examines roles and responsibilities of the professional practitioner in the policy process.

Describes full range of social work interventions, from micro to macro. Historical development of practice methods and survey of current techniques.

Application of clinical practice to work with individuals. Psychosocial model is emphasized. Professional laboratory develops skills in practice.

Theories for clinical practice, with emphasis on the psychosocial model. Explores basic skills for clinical practice.
SOW 6362 Individual, Family and Group Treatment II 4 AS SOK PR: CC. Emphasizes selection of techniques in the psychosocial model of treatment. Primary focus on family, couple, and parent-child problems. Course includes skill practice lab sessions.

SOW 6368 Individual, Family and Group Treatment III 3 AS SOK PR: CC. Focus on psychosocial model of group treatment. Comparison with individual and family modality.

SOW 6375 Macro Practice Seminar 3 AS SOK PR: CC, SOW 6426, SOW 6368, SOW 6535. Studies facets of organizational environment in which clinical practice takes place; develops skills in various macro practice functions of the agency, such as supervision, program operations, and interagency relations.

SOW 6405 Foundations of Social Work Research and Statistics 3 AS SOK This is the first of four research methods courses intended to introduce students to the various methods, designs, measurements, and statistical techniques in social work research.

SOW 6425 Clinical Research 2 AS SOK This is the second in a series of four required research courses. It focuses on the design and implementation of evaluation studies in social work.

SOW 6426 Field Research I 1 AS SOK GS in Social Work only. This is the third in a series of four research courses. It provides the structure for supervision of graduate research projects.

SOW 6427 Field Research II 1 AS SOK GS in Social Work only. This is the fourth and final research course. It provides the mechanism for supervision of the graduate research project.

SOW 6534 Field Instruction I 3 AS SOK PR: CC. S/U. Supervised field instruction in a social service agency, consisting of 20 hours per week, plus a 3-hour practice seminar.

SOW 6535 Field Instruction II 6 AS SOK PR: CC. S/U. Supervised field instruction in a social service agency, consisting of 32 hours per week, plus a 2-hour practice seminar.

SOW 6536 Field Instruction III 4 AS SOK PR: CC. S/U. Supervised field instruction in a social service agency, consisting of 20 hours per week, plus a 2-hour practice seminar. Includes integrative paper or exam.

SOW 6553 Field Instruction Sequence IA: Part-Time 2 AS SOK PR: SOW 6114, SOW 6348. CR: SOW 6124. This is the first of a series of seven field instruction courses designed to provide students with opportunities to develop beginning clinical social work competency in applying knowledge to practice situations.

SOW 6554 Field Instruction Sequence IB: Part-Time 1 AS SOK PR: SOW 6553. S/U. This course is the second of seven sequential courses. Each consists of 10-15 hours per week (150 hours total) of agency field learning taught by an agency field instructor with a one-hour practice seminar taught by a University-based instructor.

SOW 6555 Field Instruction Sequence IIA: Part-Time 2 AS SOK PR: SOW 6554. This course is the third of seven sequential courses. Each consists of 10-15 hours per week of agency field taught by an agency field instructor on a one-hour practice seminar taught by a University-based instructor.
### SOW 6556 Field Instruction Sequence IIB: Part-Time
- **Units**: 2
- **Type**: AS
- **Prerequisite**: SOK PR: SOW 6555.

This course is the fourth of seven sequential courses. Each consists of 10-15 hours per week of agency field taught by an agency field instructor on a one-hour practice seminar taught by a University-based instructor.

### SOW 6557 Field Instruction Sequence IIC: Part-Time
- **Units**: 2
- **Type**: AS
- **Prerequisite**: SOK PR: SOW 6556.

This course is the fifth of seven sequential courses. Each consists of 10-15 hours per week of agency field taught by an agency field instructor on a one-hour practice seminar taught by a University-based instructor.

### SOW 6558 Field Instruction Sequence IIIA: Part-Time
- **Units**: 2
- **Type**: AS
- **Prerequisite**: SOK PR: SOW 6557.

This course is the sixth of seven sequential courses. Each consists of 10-15 hours per week of agency field taught by an agency field instructor on a one-hour practice seminar taught by a University-based instructor.

### SOW 6559 Field Instruction Sequence IIIB: Part-Time
- **Units**: 2
- **Type**: AS
- **Prerequisite**: SOK PR: SOW 6558.

This course is the last of seven sequential courses. Each consists of 10-15 hours per week of agency field learning taught by an agency field instructor on a one-hour practice seminar taught by a University-based instructor.

### SOW 6900 Independent Study
- **Units**: 1-3
- **Type**: AS
- **Prerequisite**: Admission to MSW program, CC.

A reading program in selected topics under supervision of a faculty member. A formal contract must be approved by School Director.

### SOW 6931 Selected Topics in Social Work
- **Units**: 1-4
- **Type**: SOK
- **Prerequisite**: CC. Restricted to MSW students; others by School permission.

### SPA 6106 Neurological Correlates of Language
- **Units**: 3
- **Type**: AS
- **Prerequisite**: CSD PR: DPR.

Review of the anatomy and physiology of the nervous system. Discuss neurological correlates of receptive and expressive language in verbal and non-verbal transmission and feedback.

### SPA 6232 Neuromotor Communication Disorders
- **Units**: 3
- **Type**: CSD
- **Prerequisite**: DPR.

A study of the medical, physical, occupational, speech, language, and hearing problems of the neuro-motorically impaired client. Therapy techniques are reviewed and evaluated.

### SPA 6245 Craniofacial Communication Disorders
- **Units**: 3
- **Type**: CSD
- **Prerequisite**: DPR.

An in-depth study of speech, language, and hearing problems associated with cleft lip and cleft palate and other craniofacial dysmorphologies. Consideration is given to the multidisciplinary approach to therapy and rehabilitation.

### SPA 6305 Child Audiology
- **Units**: 3
- **Type**: CSD
- **Prerequisite**: SPA 5312 or DPR.

Etiologies and manifestations of hearing loss within a pediatric population. Survey of procedures used in early identification and quantified measurement of hearing loss in young and non-communicative children.

### SPA 6314 Electrophysiologic Audiology: Evoked Potentials
- **Units**: 3
- **Type**: CSD
- **Prerequisite**: SPA 5303 and SPA 5312 or DPR.

Theories and clinical methods of using auditory evoked potentials to assess the neural-integrity of the brainstem, gain estimates of auditory sensitivity and explore cognitive behaviors.

### SPA 6316 Electrophysiologic Audiology: Electronystagmography (ENG)
- **Units**: 3
- **Type**: CSD
- **Prerequisite**: SPA 5303 and SPA 5312 or DPR.

Principles and clinical practices of assessing the peripheral and central components of the human vestibular system using electrical recordings of induced and spontaneous nystagmus.

### SPA 6322 Aural Rehabilitation: Children
- **Units**: 3
- **Type**: CSD
- **Prerequisite**: DPR.

Provide information and strategies for aural rehabilitation intervention with hearing impaired children. Includes techniques of speech reading, auditory training, and language for hearing impaired.
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
<th>Type</th>
<th>Prerequisites</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>SPA 6326</td>
<td>Curriculum Procedures and Materials for the Hearing Impaired</td>
<td>3</td>
<td>AS</td>
<td>CSD PR: Major in Aural Rehabilitation or DPR.</td>
<td>Curricular adaptation, methods, techniques, and organization necessary for teaching the hearing impaired.</td>
</tr>
<tr>
<td>SPA 6329</td>
<td>Reading for the Hearing Impaired</td>
<td>2</td>
<td>AS</td>
<td>CSD PR: RED 4310, RED 4515, and DPR.</td>
<td>Techniques and materials for teaching reading to children with auditory disorders. Evaluation and analysis of contemporary programs and methods.</td>
</tr>
<tr>
<td>SPA 6345</td>
<td>Hearing Aids</td>
<td>3</td>
<td>AS</td>
<td>CSD PR: DPR.</td>
<td>Interpretation of hearing test data as it relates to the selection of hearing aids and the planning of rehabilitation programs for the hearing impaired.</td>
</tr>
<tr>
<td>SPA 6354</td>
<td>Hearing Conservation</td>
<td>3</td>
<td>AS</td>
<td>CSD PR: DPR.</td>
<td>An investigation of the hazardous properties of noise and their effects upon the human auditory systems; hearing conservation programs in industry; and the extra-aural effects and control of community noises.</td>
</tr>
<tr>
<td>SPA 6401</td>
<td>Pediatric Language Disorders</td>
<td>3</td>
<td>AS</td>
<td>CSD PR: DPR.</td>
<td>Specific language therapy approaches are discussed and evaluated.</td>
</tr>
<tr>
<td>SPA 6403</td>
<td>Language Learning Disabilities</td>
<td>3</td>
<td>AS</td>
<td>CSD PR: DPR.</td>
<td>Examination of research and clinical literature pertaining to causes and effects of atypical language and literacy learning and developmental frameworks for integrated intervention in oral and written language.</td>
</tr>
<tr>
<td>SPA 6410</td>
<td>Aphasia and Related Disorders</td>
<td>3</td>
<td>AS</td>
<td>CSD PR: SPA 6106 and DPR.</td>
<td>Consideration of the neurological and psychological aspects of aphasia and related disorders as they relate to communication disorders.</td>
</tr>
<tr>
<td>SPA 6413</td>
<td>Augmentative and Alternative Communication</td>
<td>3</td>
<td>AS</td>
<td>CSD PR: DPR.</td>
<td>This course details the in-depth assessment and treatment of communication modes in non-speaking individuals. Students will be presented with the variety of aided and unaided systems which exist for helping non-speaking persons; students gain experience in the use of these devices.</td>
</tr>
<tr>
<td>SPA 6415</td>
<td>Neurolinguistic Theories of Language</td>
<td>3</td>
<td>AS</td>
<td>CSD PR: SPA 6410, SPA 6232 and DPR.</td>
<td>Neurolinguistic theories as appropriate to the discipline are presented and discussed in relationship to language development and disorders. Information from linguistics, psycholinguistics, artificial intelligence, neuroanatomy, and other sciences are applied to Language Science.</td>
</tr>
<tr>
<td>SPA 6421</td>
<td>Language for the Hearing Impaired</td>
<td>3</td>
<td>AS</td>
<td>CSD PR: SPA 3030, SPA 3310, SPA 4363, and DPR.</td>
<td>Techniques and materials of teaching language to children with auditory disorders as well as evaluation and analysis of contemporary intervention and clinical methods.</td>
</tr>
<tr>
<td>SPA 6422</td>
<td>Speech Perception and Production for the Hearing Impaired</td>
<td>3</td>
<td>AS</td>
<td>CSD PR: SPA 3310, SPA 3311 or CC.</td>
<td>In depth study of the effects of hearing loss on speech perception and on the development of speech production skills in children. Methods for testing/training speech perception/production skills in the hearing-impaired are discussed.</td>
</tr>
<tr>
<td>SPA 6473</td>
<td>Multicultural Differences in Language</td>
<td>3</td>
<td>AS</td>
<td>CSD PR: CI.</td>
<td>The focus is on developing intercultural competencies to design and implement more culturally and linguistically appropriate services for individuals with communication disorders or differences.</td>
</tr>
<tr>
<td>SPA 6505</td>
<td>Practicum</td>
<td>1-10</td>
<td>AS</td>
<td>CSD PR: DPR.</td>
<td>Participation in speech-language pathology and audiology practicum in the University clinical laboratory and selected field settings.</td>
</tr>
<tr>
<td>Course Code</td>
<td>Course Title</td>
<td>Units</td>
<td>Type</td>
<td>GPR</td>
<td>Description</td>
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<tr>
<td>SPA 6553</td>
<td>Advanced Differential Diagnosis and Treatment</td>
<td>3 AS</td>
<td>CSD</td>
<td>PR: DPR.</td>
<td>The interpretation of evaluation results and the integration of these data in order to make a differential diagnosis leading to an appropriate therapy plan. The administration, evaluation, and reporting of advanced evaluation techniques not covered in SPA 5552.</td>
</tr>
<tr>
<td>SPA 6601</td>
<td>Ethical Practice Issues in Communication Sciences and Disorders</td>
<td>2 AS</td>
<td>CSD</td>
<td>PR: DPR.</td>
<td>Topics include: legal and ethical issues affecting practice, licensure, and ASHA certification, the ASHA Code of ethics, laws and regulations governing practice in health care and educational settings, quality assurance standards.</td>
</tr>
<tr>
<td>SPA 6805</td>
<td>Research Procedures in Communication Sciences and Disorders</td>
<td>3 AS</td>
<td>CSD</td>
<td>PR: DPR.</td>
<td>Advanced research and experimental design techniques employed in clinical and laboratory settings in speech-language pathology and audiology.</td>
</tr>
<tr>
<td>SPA 6906</td>
<td>Independent Study</td>
<td>1-19 AS</td>
<td>CSD</td>
<td>PR: DPR. S/U grading only.</td>
<td>Independent study in which students must have a contract with an instructor.</td>
</tr>
<tr>
<td>SPA 6910</td>
<td>Directed Research</td>
<td>1-19 AS</td>
<td>CSD</td>
<td>PR: GR. ML., DPR. S/U grading only.</td>
<td>A reading program of topics in speech pathology and/or audiology conducted under the supervision of a faculty member.</td>
</tr>
<tr>
<td>SPA 6930</td>
<td>Selected Topics</td>
<td>3 AS</td>
<td>CSD</td>
<td>PR: DPR.</td>
<td>A reading program of topics in speech pathology and/or audiology conducted under the supervision of a faculty member.</td>
</tr>
<tr>
<td>SPA 6971</td>
<td>Thesis: Master's</td>
<td>2-19 AS</td>
<td>CSD</td>
<td>PR: DPR.</td>
<td>Addresses the central research and clinical issues related to the diagnosis and treatment of communication disorders. Content of seminars varies with instructor's expertise.</td>
</tr>
<tr>
<td>SPC 6231</td>
<td>Survey of Rhetorical Theory</td>
<td>3 AS</td>
<td>SPE</td>
<td>PR: GS.</td>
<td>Historical development of rhetorical theory from Plato to contemporary theorists with emphasis upon the evolution of trends and concepts in rhetorical theory.</td>
</tr>
<tr>
<td>SPC 6236</td>
<td>Contemporary Rhetorical Theory</td>
<td>3 AS</td>
<td>SPE</td>
<td>PR: GS.</td>
<td>Basic texts in 20th century rhetorical theory. Readings may vary.</td>
</tr>
<tr>
<td>SPC 6391</td>
<td>Interpersonal Communication</td>
<td>3 AS</td>
<td>SPE</td>
<td>PR: GS.</td>
<td>Study of theory and research related to interpersonal communication.</td>
</tr>
<tr>
<td>SPC 6545</td>
<td>Persuasion</td>
<td>3 AS</td>
<td>SPE</td>
<td>PR: GS.</td>
<td>Study of contemporary theories and research in persuasion.</td>
</tr>
<tr>
<td>Course Code</td>
<td>Course Name</td>
<td>Credits</td>
<td>Type</td>
<td>Prerequisite(s)</td>
<td>Description</td>
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<tr>
<td>SPC 6645</td>
<td>Rhetoric in Society</td>
<td>3</td>
<td>AS</td>
<td>SPE PR: GS.</td>
<td>Examination of ways in which rhetoric reflects and molds social processes, including social integration and/or alienation; social roles and identity construction; institutions and movements; ideology and social change.</td>
</tr>
<tr>
<td>SPC 6682</td>
<td>Rhetorical Criticism</td>
<td>3</td>
<td>AS</td>
<td>SPE</td>
<td>The study of theoretical perspectives in rhetorical criticism. The application of criticism to selected rhetorical situations.</td>
</tr>
<tr>
<td>SPC 6903</td>
<td>Directed Readings</td>
<td>1-4</td>
<td>AS</td>
<td>SPE PR: CC.</td>
<td></td>
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<tr>
<td>SPC 6934</td>
<td>Selected Topics in Communication</td>
<td>1-4</td>
<td>AS</td>
<td>SPE</td>
<td></td>
</tr>
<tr>
<td>SPC 6935</td>
<td>Pro Seminar in Communication</td>
<td>1-3</td>
<td>AS</td>
<td>SPE PR: GS.</td>
<td>Reading and discussion of current books, articles, and papers in communication theory and research.</td>
</tr>
<tr>
<td>SPC 7900</td>
<td>Doctoral Research Tutorial</td>
<td>1-3</td>
<td>AS</td>
<td>SPE PR: Admitted to doctoral program.</td>
<td>Advanced directed research.</td>
</tr>
<tr>
<td>SPC 7930</td>
<td>Seminar in Rhetorical Studies</td>
<td>3</td>
<td>AS</td>
<td>SPE PR: GS.</td>
<td>Variable topics course.</td>
</tr>
<tr>
<td>SPN 6795</td>
<td>Phonology and Dialectology</td>
<td>3</td>
<td>AS</td>
<td>WLE PR: SPN 3300.</td>
<td>A study of the Spanish sound system.</td>
</tr>
<tr>
<td>SPN 6845</td>
<td>History of the Spanish Language</td>
<td>3</td>
<td>AS</td>
<td>WLE</td>
<td>Traces the development of Spanish from its Latin origins to the present.</td>
</tr>
<tr>
<td>SPN 6940</td>
<td>Graduate Instruction Methods</td>
<td>1-3</td>
<td>AS</td>
<td>WLE S/U.</td>
<td>Special course to be used primarily for the training of teaching assistants.</td>
</tr>
</tbody>
</table>
### SPS 6101 Child and Adolescent Behavior Disorders
- **Units:** 4
- **Type:** ED
- **Field:** EDF
- **Description:** Theoretical and empirical identification and understanding of children and adolescents with behavior disorders. Treatment issues as they relate to school psychological services.

### SPS 6196 Assessment of Child and Adolescent Personality
- **Units:** 4
- **Type:** ED
- **Field:** EDF
- **Description:** Conceptualizations of personality and personality assessment; perspectives of disturbed and disturbing behavior, and personality assessment measures.

### SPS 6197 Psychoeducational Diagnosis and Prescription I
- **Units:** 4
- **Type:** ED
- **Field:** EDF
- **Prerequisite:** Acceptance to graduate program in School Psychology.
- **Description:** Content covers comprehensive diagnosis and prescription in school psychology, including critical reviews of relevant research literatures, the professional-client relationship, interviewing, client histories, pluralistic psychoeducational assessment, assessment of educational environments, synthesis and dissemination of diagnostic data, and referral procedures. Appropriate field experiences will be provided. This course must be taken during two consecutive semesters, and the grade will be awarded at the end of the sequence.

### SPS 6198 Psychoeducational Diagnosis and Prescription II
- **Units:** 4
- **Type:** ED
- **Field:** EDF
- **Prerequisite:** Acceptance to graduate program in School Psychology.
- **Description:** Content covers comprehensive diagnosis and prescription in school psychology, including critical reviews of relevant research literatures, the professional-client relationship, interviewing, client histories, pluralistic psychoeducational assessment, assessment of educational environments, synthesis and dissemination of diagnostic data, and referral procedures. Appropriate field experiences will be provided. This course must be taken during two consecutive semesters, and the grade will be awarded at the end of the sequence.

### SPS 6700C Psychoeducational Interventions With Children and Adolescents I
- **Units:** 3
- **Type:** ED
- **Field:** EDF
- **Prerequisite:** Acceptance to School Psychology Graduate Program or CI. Concurrent enrollment required with SPS 6700.
- **Description:** Content covers psychoeducational interventions for school-referred children and adolescents specific to school psychological services. This is an integrated sequence of courses addressing educational and psychological (direct and indirect) interventions with topics also including consultative service delivery, the acceptability of classroom strategies, classroom and behavior management, and the synthesis of assessment data into effective interventions all within the referral context. Appropriate field experiences will be required for Intervention I and Intervention II; therefore, concurrent enrollment in the Intervention Practicum course for these two courses only is required.

### SPS 6701C Psychoeducational Interventions With Children and Adolescents II
- **Units:** 4
- **Type:** ED
- **Field:** EDF
- **Prerequisite:** Acceptance to School Psychology Graduate Program or CI. Concurrent enrollment required with SPS 6700.
- **Description:** Content covers psychoeducational interventions for school-referred children and adolescents specific to school psychological services. This is an integrated sequence of courses addressing educational and psychological (direct and indirect) interventions with topics also including consultative service delivery, the acceptability of classroom strategies, classroom and behavior management, and the synthesis of assessment data into effective interventions all within the referral context. Appropriate field experiences will be required for Intervention I and Intervention II; therefore, concurrent enrollment in the Intervention Practicum course for these two courses only is required.

### SPS 6702C Psychoeducational Interventions With Children and Adolescents III
- **Units:** 3
- **Type:** ED
- **Field:** EDF
- **Prerequisite:** Acceptance to School Psychology Graduate Program or CI. Concurrent enrollment required with SPS 6700.
- **Description:** Content covers psychoeducational interventions for school-referred children and adolescents specific to school psychological services. This is an integrated sequence of courses addressing educational and psychological (direct and indirect) interventions with topics also including consultative service delivery, the acceptability of classroom strategies, classroom and behavior management, and the synthesis of assessment data into effective interventions all within the referral context. Appropriate field experiences will be required for Intervention I and Intervention II; therefore, concurrent enrollment in the Intervention Practicum course for these two courses only is required.
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
<th>Requirements</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>SPS 6806</td>
<td>Developmental Bases of Diverse Behaviors</td>
<td>4</td>
<td>EDF</td>
<td>This course deals with some of the major social and educational policy concerns posed by developmental and cultural diversity in our society.</td>
</tr>
<tr>
<td>SPS 6936</td>
<td>Graduate Seminar in School Psychology</td>
<td>1-3</td>
<td>EDF PR: CL</td>
<td>Seminars to explore current matters of professional concern in school psychology, such as trends, problems, legal and ethical issues, and empirical bases of techniques.</td>
</tr>
<tr>
<td>SPS 6940</td>
<td>Practicum in Psychoeducational Interventions</td>
<td>1-4</td>
<td>EDF PR: Concurrent enrollment in Psychoeducational Interventions with Children and Adolescents - I or II (SPS 6700 or SPS 6701), or DPR.</td>
<td>Course provides practical experiences and implementation of skills discussed and acquired in the intervention courses within settings relevant to school psychology.</td>
</tr>
<tr>
<td>SPS 6941</td>
<td>Practicum in Psychoeducational Interventions</td>
<td>1-4</td>
<td>EDF PR: Concurrent enrollment in Psychoeducational Interventions with Children and Adolescents - I or II (SPS 6700 or SPS 6701), or DPR.</td>
<td>Course provides practical experiences and implementation of skills discussed and acquired in the intervention courses within settings relevant to school psychology.</td>
</tr>
<tr>
<td>SPS 6947</td>
<td>Internship</td>
<td>1-9</td>
<td>EDF</td>
<td>Involves field-based, supervised experience of 1,500 (minimum) clock hours at the Educational Specialist level and 2,000 (minimum) clock hours at the Doctoral level.</td>
</tr>
<tr>
<td>SPS 7090</td>
<td>Supervision Processes in School Psychology</td>
<td>4</td>
<td>EDF</td>
<td>Advanced topics and techniques in the comprehensive assessment of children and adolescents typically referred for school psychological services.</td>
</tr>
<tr>
<td>SPS 7199</td>
<td>Advanced Psychoeducational Assessment</td>
<td>4</td>
<td>EDF PR: SPS 6197/SPS 6198 and SPS 6934/SPS 6944, or DPR.</td>
<td>Advanced topics and techniques in consultation processes for advanced school psychologists.</td>
</tr>
<tr>
<td>SPS 7205</td>
<td>Advanced Consultation Processes in School Psychology</td>
<td>4</td>
<td>EDF PR: EDF 6166, or DPR.</td>
<td>Advanced topics and techniques in psychoeducational interventions for children and adolescents referred for school psychological services.</td>
</tr>
<tr>
<td>SPS 7700</td>
<td>Advanced Psychoeducational Interventions</td>
<td>4</td>
<td>EDF PR: SPS 6700/SPS 6701 and SPS 6940/SPS 6941, or DPR.</td>
<td>Covers advanced topics and techniques in child and adolescent psychotherapy relevant to school psychological services.</td>
</tr>
<tr>
<td>SPS 7701</td>
<td>Advanced Child and Adolescent Psychotherapy</td>
<td>4</td>
<td>EDF PR: SPS 6702, or DPR.</td>
<td></td>
</tr>
<tr>
<td>Course Code</td>
<td>Course Title</td>
<td>Credits</td>
<td>Type</td>
<td>Co-reqs</td>
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</tr>
<tr>
<td>SPS 7910</td>
<td>Directed Research in School Psychology</td>
<td>1-19</td>
<td>ED</td>
<td>EDF</td>
</tr>
<tr>
<td>SPS 7936</td>
<td>Advanced Seminar in School Psychology</td>
<td>1-3</td>
<td>ED</td>
<td>EDF</td>
</tr>
<tr>
<td>SPS 7980</td>
<td>Dissertation</td>
<td>2-30</td>
<td>ED</td>
<td>EDF</td>
</tr>
<tr>
<td>SPW 6428</td>
<td>Golden Age Novel</td>
<td>3</td>
<td>AS</td>
<td>WLE</td>
</tr>
<tr>
<td>SPW 6485</td>
<td>Post Civil War Literature</td>
<td>3</td>
<td>AS</td>
<td>WLE</td>
</tr>
<tr>
<td>SPW 6775</td>
<td>Caribbean Literature</td>
<td>3</td>
<td>AS</td>
<td>WLE</td>
</tr>
<tr>
<td>SPW 6910</td>
<td>Directed Research</td>
<td>1-19</td>
<td>AS</td>
<td>WLE</td>
</tr>
<tr>
<td>SPW 6936</td>
<td>Graduate Seminar</td>
<td>3</td>
<td>AS</td>
<td>WLE</td>
</tr>
<tr>
<td>SSE 6617</td>
<td>Trends in Elementary Social Studies Education</td>
<td>3</td>
<td>ED</td>
<td>EDE</td>
</tr>
<tr>
<td>SSE 6636</td>
<td>Trends in Secondary Social Science Education</td>
<td>3</td>
<td>ED</td>
<td>EDW</td>
</tr>
<tr>
<td>SSE 6906</td>
<td>Independent Study in Social Sciences Education</td>
<td>1-6</td>
<td>ED</td>
<td>EDW</td>
</tr>
<tr>
<td>SSE 6932</td>
<td>Selected Topics in Social Science Education</td>
<td>3</td>
<td>ED</td>
<td>EDI</td>
</tr>
</tbody>
</table>

Readings and discussions organized around an in-depth examination of selected social studies education topics selected by professors.
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
<th>Department</th>
<th>Prerequisites</th>
</tr>
</thead>
<tbody>
<tr>
<td>SSE 6947</td>
<td>Internship</td>
<td>6 ED</td>
<td>EDI</td>
<td>PR: CI</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>This course provides students with an extended school-based experience, under the guidance of a</td>
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<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>cooperating teacher and a university supervisor, for a full semester at or near the end of their</td>
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<td></td>
<td></td>
<td></td>
<td></td>
<td>graduate program. Open to graduate degree candidates only. Supervised teaching at the secondary</td>
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<tr>
<td></td>
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<td></td>
<td></td>
<td>level as appropriate. S/U (PR: CI)</td>
</tr>
<tr>
<td>SSE 7910</td>
<td>Directed Research in Social Sciences Education</td>
<td>1-19 ED</td>
<td>EDW</td>
<td>PR: CI</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>This course permits a doctoral student to conduct advanced research and to pursue specific areas</td>
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<td></td>
<td></td>
<td></td>
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<td>of interest with a faculty member as supervisor. A contract is required with the faculty member.</td>
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<tr>
<td></td>
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<td></td>
<td>S/U</td>
</tr>
<tr>
<td>SSE 7980</td>
<td>Dissertation in Social Science Education</td>
<td>2-24 ED</td>
<td>EDW</td>
<td>PR: Admission to Candidacy</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Rpt.</td>
</tr>
<tr>
<td>STA 6167</td>
<td>Computational Statistics II</td>
<td>3 AS</td>
<td>MTH</td>
<td>PR: STA 5166.</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Design of statistics programs, pivoting and other</td>
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<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>technology used in stepwise regressions, algorithms in non-linear regression, balanced and</td>
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<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>unbalanced ANOVA. Iteration methods for numerical solutions of likelihood equations.</td>
</tr>
<tr>
<td>STA 6206</td>
<td>Stochastic Processes</td>
<td>4 AS</td>
<td>MTH</td>
<td>PR: STA 5446.</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Poisson processes, renewal theorems, Markov chains on a countable state space, continuous-time</td>
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<tr>
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<td></td>
<td></td>
<td></td>
<td>Markov processes with a countable state space, birth and death processes, branching processes,</td>
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<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>introduction to Brownian motion.</td>
</tr>
<tr>
<td>STA 6208</td>
<td>Linear Statistical Models</td>
<td>3 AS</td>
<td>MTH</td>
<td>PR: STA 5167 or STA 5326 or CI</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Distribution theory, estimation, and hypothesis testing for the general linear model.</td>
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<td>Experimental designs, including randomized block and incomplete block designs. Multiple regression,</td>
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<td></td>
<td></td>
<td></td>
<td></td>
<td>ANOVA, and ANCOVA.</td>
</tr>
<tr>
<td>STA 6447</td>
<td>Probability Theory II</td>
<td>3 AS</td>
<td>MTH</td>
<td>PR: STA 5446 and MAA 5306 or CI</td>
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<tr>
<td></td>
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<td>Characteristic functions, central limit theorem, martingale inequalities and convergence</td>
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<td></td>
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<td>theorems, optional stopping, ergodic theorems and applications.</td>
</tr>
<tr>
<td>STA 6746</td>
<td>Multivariate Analysis</td>
<td>3 AS</td>
<td>MTH</td>
<td>PR: STA 5326 or CI</td>
</tr>
<tr>
<td></td>
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<td>Multivariate normal distribution; its properties and inference; matrix random variables; multiple</td>
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<td></td>
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<td>and partial correlation; discriminant analysis, principle components and factor analysis;</td>
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<td></td>
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<td></td>
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<td>multivariate ANOVA; analysis of covariance; applications using computers.</td>
</tr>
<tr>
<td>STA 6876</td>
<td>Time Series Analysis</td>
<td>3 AS</td>
<td>MTH</td>
<td>PR: STA 5326 or CI</td>
</tr>
<tr>
<td></td>
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<td></td>
<td>Theory and applications of discrete time series models illustrated with forecasting problems.</td>
</tr>
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<td></td>
<td>Filtering, forecasting, modeling, and spectral analysis of time series. Control problems.</td>
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<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Applications using a computer.</td>
</tr>
<tr>
<td>SYA 6126</td>
<td>Contemporary Sociological Theory</td>
<td>3 AS</td>
<td>SOC</td>
<td>PR: Undergraduate course in sociological theory or CI</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Emphasizes logical and conceptual dimensions of theory and theory construction.</td>
</tr>
<tr>
<td>SYA 6204</td>
<td>Constructing Social Problems</td>
<td>3 AS</td>
<td>SOC</td>
<td>PR: GS or Department Approval</td>
</tr>
<tr>
<td></td>
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<td></td>
<td></td>
<td>An examination of social problems using social constructionism theoretical perspectives. Topics</td>
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<td></td>
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<td>focus on how humans create meaning and how this meaning influences reactions to conditions</td>
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<td></td>
<td></td>
<td></td>
<td>defined as social problems.</td>
</tr>
<tr>
<td>SYA 6305</td>
<td>Methods of Research</td>
<td>3 AS</td>
<td>SOC</td>
<td>PR: Undergraduate course in sociological research methods or CI</td>
</tr>
<tr>
<td></td>
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<td></td>
<td>Logic and practice of research; problems of observation and data collection, data processing,</td>
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<td></td>
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<td></td>
<td></td>
<td>and evaluation.</td>
</tr>
<tr>
<td>SYA 6315</td>
<td>Qualitative Research Methods</td>
<td>3 AS</td>
<td>SOC</td>
<td>PR: Undergraduate course in sociological research methods or CI</td>
</tr>
<tr>
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<td>Designed to introduce students to qualitative research methods, such as participant observation</td>
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<td>and intensive interviewing that require the researcher to get close to the social situation of</td>
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<td></td>
<td></td>
<td>interest.</td>
</tr>
<tr>
<td>Code</td>
<td>Title</td>
<td>Units</td>
<td>Credits</td>
<td>Classroom</td>
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<tr>
<td>SYA</td>
<td>Sociological Statistics</td>
<td>3</td>
<td>AS</td>
<td>SOC</td>
</tr>
<tr>
<td>SYA</td>
<td>SPSS and Social Research</td>
<td>3</td>
<td>AS</td>
<td>SOC</td>
</tr>
<tr>
<td>SYA</td>
<td>Community Analysis</td>
<td>3</td>
<td>AS</td>
<td>SOC</td>
</tr>
<tr>
<td>SYA</td>
<td>Independent Study</td>
<td>1-19</td>
<td>AS</td>
<td>SOC</td>
</tr>
<tr>
<td>SYA</td>
<td>Directed Research</td>
<td>1-19</td>
<td>AS</td>
<td>SOC</td>
</tr>
<tr>
<td>SYA</td>
<td>Special Topics-Sociology</td>
<td>3</td>
<td>AS</td>
<td>SOC</td>
</tr>
<tr>
<td>SYD</td>
<td>Race and Ethnicity</td>
<td>3</td>
<td>AS</td>
<td>SOC</td>
</tr>
<tr>
<td>SYG</td>
<td>Seminar in Teaching Sociology</td>
<td>3</td>
<td>AS</td>
<td>SOC</td>
</tr>
<tr>
<td>SYO</td>
<td>Family Analysis</td>
<td>3</td>
<td>AS</td>
<td>SOC</td>
</tr>
<tr>
<td>SYO</td>
<td>Seminar in Sociology of Education</td>
<td>3</td>
<td>AS</td>
<td>SOC</td>
</tr>
<tr>
<td>SYO</td>
<td>Sociology of Health and Illness</td>
<td>3</td>
<td>AS</td>
<td>SOC</td>
</tr>
<tr>
<td>SYO</td>
<td>Complex Organizations</td>
<td>3</td>
<td>AS</td>
<td>SOC</td>
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<tr>
<td>Course Code</td>
<td>Course Title</td>
<td>Credits</td>
<td>Prerequisites</td>
<td>Description</td>
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<tr>
<td>SYO 7435</td>
<td>Sociology of Disability in Urban Society</td>
<td>3</td>
<td>AS SOC</td>
<td>This course critically evaluates current controversies over the utility of a variety of theoretical perspectives and research methods in understanding the lived experience of disability in 21st century urban society.</td>
</tr>
<tr>
<td>SYP 6515</td>
<td>Sociology of Deviance</td>
<td>3</td>
<td>AS SOC</td>
<td>Develops knowledge of traditional theories of deviance as well as critiques them. Through development of alternative perspectives, challenges constructions of deviance and the mechanisms of power.</td>
</tr>
<tr>
<td>TAX 6005</td>
<td>Advanced Partnership Taxation</td>
<td>3</td>
<td>BA ACC</td>
<td>A study of advanced income tax problems involving partnerships, including organization, operation, distributions, liquidations, basis, family partnerships, and sales and exchanges. The planning and business aspects of partnerships are emphasized.</td>
</tr>
<tr>
<td>TAX 6016</td>
<td>Advanced Corporate Taxation I</td>
<td>3</td>
<td>BA ACC</td>
<td>This is the first of two sequential courses on Advanced Corporate Taxation. This course studies advanced income tax problems involving corporations, including organization, operation, distribution, and liquidation. Topics include &quot;S&quot; Corporations, collapsible corporations, personal holding companies, accumulation of earnings, and acquisition and disposition of cooperations. The planning and business aspects of corporate transactions are emphasized.</td>
</tr>
<tr>
<td>TAX 6025</td>
<td>Advanced Corporate Taxation II</td>
<td>3</td>
<td>BA ACC</td>
<td>This is the second of two sequential courses on Advanced Corporate Taxation. This course covers advanced corporation topics including multiple corporations, transfer of corporate attributes, corporate divisions, corporate reorganizations, consolidated corporate tax returns, limitation on corporate loss carry-forwards and taxation of foreign corporations and foreign source income.</td>
</tr>
<tr>
<td>TAX 6065</td>
<td>Tax Research, Planning, and Procedure</td>
<td>3</td>
<td>BA ACC</td>
<td>A study of the development of tax law and its implications in business decisions. Tax research, tax planning, and tax procedure are emphasized, along with relevant computer research applications.</td>
</tr>
<tr>
<td>TAX 6134</td>
<td>Advanced Corporate Taxation</td>
<td>3</td>
<td>BA ACC</td>
<td>A study of advanced income tax problems involving corporations, including organization, operation, distributions, liquidations, consolidated corporate tax returns, and taxation of foreign corporations and foreign source income.</td>
</tr>
<tr>
<td>TAX 6445</td>
<td>Estate Planning</td>
<td>3</td>
<td>BA ACC</td>
<td>This course covers the basics of estate, gift, and trust taxation and introduces the student to tax planning techniques to minimize the tax-burden on inter-generation transfers of wealth.</td>
</tr>
<tr>
<td>THE 6720</td>
<td>Drama in Elementary School</td>
<td>3</td>
<td>VP EDD</td>
<td>Methods of using theatre and drama activities in elementary school, including use of drama and theatre for interdisciplinary, integrated projects. Available to majors and non-majors, no extra laboratory sections.</td>
</tr>
<tr>
<td>THE 6736</td>
<td>Methods of Directing the High School Play</td>
<td>3</td>
<td>VP EDD</td>
<td>Directing the high school play including script selection, analysis and interpretation, audition and casting procedures, composition, picturization, staging movement, rhythm and pacing, pantomimic dramatization, organizing and conducting rehearsals.</td>
</tr>
<tr>
<td>THE 6930</td>
<td>Selected Topics in the Teaching of Theatre</td>
<td>3</td>
<td>VP EDD</td>
<td>Investigation of topics related to theatre teaching of special interest to the student. Topics will be selected by the student and approved by the graduate advisor.</td>
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<td>S/U.</td>
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<td>Course Code</td>
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<td>Type</td>
<td>Audience</td>
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<tr>
<td>TSL 6945</td>
<td>Internship</td>
<td>1-6</td>
<td>AS</td>
<td>WLE</td>
</tr>
<tr>
<td>TTE 6270</td>
<td>Intelligent Transportation Systems</td>
<td>3</td>
<td>EN</td>
<td>EGX</td>
</tr>
<tr>
<td>TTE 6315</td>
<td>Transportation Safety</td>
<td>3</td>
<td>EN</td>
<td>EGX</td>
</tr>
<tr>
<td>TTE 6505</td>
<td>Discrete Choice Models of Travel Behavior</td>
<td>3</td>
<td>EN</td>
<td>EGX</td>
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<tr>
<td>TTE 6507</td>
<td>Travel Demand Modeling</td>
<td>3</td>
<td>EN</td>
<td>EGX</td>
</tr>
<tr>
<td>TTE 6651</td>
<td>Public Transportation</td>
<td>3</td>
<td>EN</td>
<td>EGX</td>
</tr>
<tr>
<td>TTE 6655</td>
<td>Transportation and Land Use</td>
<td>3</td>
<td>EN</td>
<td>EGX</td>
</tr>
<tr>
<td>TTE 6835</td>
<td>Pavement Design</td>
<td>3</td>
<td>EN</td>
<td>EGX</td>
</tr>
<tr>
<td>TTE 6837</td>
<td>Pavement Management Systems</td>
<td>3</td>
<td>EN</td>
<td>EGX</td>
</tr>
<tr>
<td>TTE 6930</td>
<td>Graduate Transportation Seminar</td>
<td>1</td>
<td>EN</td>
<td>EGX</td>
</tr>
<tr>
<td>URP 6056</td>
<td>City and Regional Planning</td>
<td>3</td>
<td>AS</td>
<td>POL</td>
</tr>
<tr>
<td>WST 6001</td>
<td>Feminist Research and Methodology</td>
<td>3</td>
<td>AS</td>
<td>WST</td>
</tr>
<tr>
<td>WST 6002</td>
<td>Feminist Scholarship and Pedagogy</td>
<td>3</td>
<td>AS</td>
<td>WST</td>
</tr>
<tr>
<td>Course Code</td>
<td>Course Title</td>
<td>Credits</td>
<td>Department</td>
<td>Description</td>
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<tr>
<td>WST 6266</td>
<td>Women of Color: Activism and Social Change</td>
<td>3</td>
<td>WST</td>
<td>Intensive reading and discussion of the participation of women of color in contemporary revolutionary and reformist activities. Class project involvement is required.</td>
</tr>
<tr>
<td>WST 6406</td>
<td>Women of Color/Activism and Social Change</td>
<td>3</td>
<td>WST</td>
<td>Intensive reading and discussion of the participation of women of color in contemporary and reformist activities.</td>
</tr>
<tr>
<td>WST 6560</td>
<td>Advanced Feminist Theory</td>
<td>3</td>
<td>WST</td>
<td>An in-depth exploration of current issues and debates in Feminist Theories. Topics may include: representation, essentialism, authority structures, subjectivity, identity and difference. Department Approval Required.</td>
</tr>
<tr>
<td>WST 6562</td>
<td>Body Politics</td>
<td>3</td>
<td>WST</td>
<td>An in-depth feminist exploration of how the body is produced, inscribed, replicated, and often disciplined as a result of various powers at work.</td>
</tr>
<tr>
<td>WST 6705</td>
<td>Women and Policy</td>
<td>3</td>
<td>WST</td>
<td>Examination of policy areas such as employment, violence, welfare which have a significant impact on women. The aim is to achieve a deeper understanding of the way in which gender functions as a category of analysis in policy decision, and also examines and critiques the area from which policy is produced.</td>
</tr>
<tr>
<td>WST 6900</td>
<td>Directed Readings</td>
<td>1-3</td>
<td>WST</td>
<td>Supervised program of intensive readings of an interdisciplinary nature focusing on women. Student must have contract with instructor.</td>
</tr>
<tr>
<td>WST 6910</td>
<td>Directed Research</td>
<td>1-3</td>
<td>WST</td>
<td>Provide graduate students with research experience in areas of specific interest utilizing feminist perspectives and research methods.</td>
</tr>
<tr>
<td>ZOO 6455</td>
<td>Advances in Ichthyology</td>
<td>1</td>
<td>BIO</td>
<td>This course discusses current topics in Ichthyology. Readings are taken from the primary literature. The course is restricted to graduate students with a background in Ichthyology.</td>
</tr>
<tr>
<td>ZOO 6907</td>
<td>Independent Study</td>
<td>1-19</td>
<td>BIO</td>
<td>Independent study in which student must have a contract with an instructor.</td>
</tr>
</tbody>
</table>