The announcements, information, policies, rules, regulations, and procedures set forth in this Catalog are for information only and are subject to continual review and change without notice.

Undergraduate students enrolled in the University are entitled to one copy of each issue of the USF Undergraduate Catalog. Students wanting additional copies may purchase them at the University Bookstore. Prospective students may obtain general University information concerning admissions, fees and degree programs by requesting either the Undergraduate Viewbook or Graduate Catalog from the Admissions Office, SVC 1036, University of South Florida 33620-6900; telephone: 813-974-3350.

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.
Visiting The University

Prospective students and other interested persons are invited to visit the University campuses. Most University offices receive visitors from 9:00 a.m.-5:00 p.m., Monday through Friday. Prospective freshmen are encouraged to attend USF PREVIEW. This program, held on the Tampa Campus, is designed to acquaint participants with USF admission, financial aid, housing, annual costs, academics and student life. USF PREVIEW information is available from the Office of Admissions in Tampa.

The Tampa Campus of the University is located on Fowler Avenue (State Road 582) approximately two miles east of Interstate 275 and Nebraska Avenue (U.S. Route 41) and seven miles north of Interstate 4 off I-75. The other campuses of the University are located in the places noted below.

Communicating With The University

Communications regarding the services and programs listed below should be directed by letter or by phone to the appropriate office on the Tampa, St. Petersburg, Lakeland, or Sarasota campuses. Mailing addresses and general telephone numbers for the campuses are given on the previous page. The offices listed below (on the Tampa Campus unless otherwise indicated) may be dialed direct at the telephone numbers shown.

Academic Advising (for Undeclared and Undecided Students)
Academic Advising, SVC 2011 974-2645
http://webasa.admin.usf.edu/advising/adv.htm

Academic Advising (for upperclassmen)
Arts & Sciences, SOC 102 974-2503
http://www.cas.usf.edu/
Business Admin., BSN 1140 974-4920
http://www.coba.usf.edu/
Engineering, ENG 104 974-2458
http://www.eng.usf.edu/
Fine Arts, FAH 120 974-3660
http://www.fas.usf.edu/
Nursing, MDN 1004 974-2005
http://www.med.usf.edu/PUBAFF/hsc/nursing1.html
Pre-Medical, SCA 306 974-2674

Academic Services for Students with Disabilities
Coordinator, SVC 1113 (voice)974-4309 (TDD) 974-5651
http://webasa.admin.usf.edu/dss.htm

Adult and Transfer Student Services
Office of the Director, SVC 1001 974-4444
http://www.rmit.usf.edu/enroll/atss/

Applications and Admissions
Office of Admissions, SVC 1026 974-3350
bulseye@admin.usf.edu
http://www.rmit.usf.edu/enroll/admiss/admiss.htm
New College
http://www.newcollege.usf.edu/
Office of Admissions (Sarasota) 359-4269
http://www.rmit.usf.edu/enroll/admiss/ Sarasota.htm

Athletics (intercollegiate)
Director of Athletics, PED 214 974-2125
http://www.rmit.usf.edu/athletics/go_bulls.htm

Bachelor of Independent Studies Program
External Degree Program, HMS 443 974-4058
http://www.cas.usf.edu/bis/index.html

Career Development
Counseling Center for Human Development, SVC 2124 974-2831
http://www.rmit.usf.edu/counsel/

Career Center
Cooperative Education Program, SVC 2088 974-2171
Career Job Search Assistance, SVC 2086 974-2171
http://www.career.usf.edu/

College Level Examination Program (CLEP tests)
Office of Evaluation and Testing Services, SVC 2054 974-2741
http://www.ugs.usf.edu/eval/ empathy.htm

Community College and Transfer Students
Adult and Transfer Student Services, SVC 1001 974-4444
http://www.rmit.usf.edu/enroll/atss/

Continuing Education Courses and Conferences
Continuing Education, MGH 144 974-2403
http://www.conted.usf.edu/sce/conferences.htm
English Language Institute, CPR 107 974-3433
http://www.conted.usf.edu/

Counseling
Counseling Center for Human Development, SVC 2124 974-2831
http://www.rmit.usf.edu/counsel/

Educational Outreach
Office of the Dean, MHH 116 974-4057
http://www.outreach.edu/

Financial Assistance (scholarships, loans, employment)
Office of Financial Aid, SVC 1102 974-4700
http://usfweb.usf.edu/enroll/finaid.htm

Graduate Studies
Office of the Dean, FAO 126 974-2846
http://www.grad.usf.edu/
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For the latest and most up-to-date information regarding the Schedule of Classes, the Search-a-Bull (database of all of USF’s courses), and academic policies, please visit Rocky’s Information Transmission Zone (the RITZ) at [http://www.ugs.usf.edu/ritz.htm](http://www.ugs.usf.edu/ritz.htm)
List of Degree Programs and Common Prerequisites

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<tr>
<td>Art [FA] - B.A.</td>
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<td>Art Education [FA] - B.A./B.S.</td>
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<td>Behavior Disorders [ED] - B.A./B.S.</td>
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<td>Biology [AS] - B.S.</td>
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<tr>
<td>Chemical Engineering [EN] - B.S. - Limited Access</td>
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<tr>
<td>Chemistry [AS] - B.A./B.S.</td>
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<td>Classics [AS] - B.A.</td>
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<tr>
<td>Communication (Speech) [AS] - B.A.</td>
<td>80</td>
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<tr>
<td>Computer Engineering [EN] - B.S. - Limited Access</td>
<td>200</td>
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<tr>
<td>Computer Science [EN] - B.S. - Limited Access</td>
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<td>Criminology [AS] - B.A.</td>
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<td>Dance Performance [FA] - B.F.A.</td>
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<td>Dance Studies [FA] - B.A.</td>
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<td>Dance Education [FA] - B.S.</td>
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<td>English [AS] - B.A.</td>
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<td>English Education [ED] - B.A./B.S.</td>
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<td>Foreign Language Education [ED] - B.A./B.S.</td>
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<td>History [AS] - B.A.</td>
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<tr>
<td>Industrial Engineering [EN] - B.S. - Limited Access</td>
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<td>Industrial-Technical Education [ED] - B.A./B.S. - Technology Education</td>
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<tr>
<td>Information Systems [EN] - B.S. - Limited Access</td>
<td>201</td>
</tr>
<tr>
<td>Interdisciplinary Natural Science [AS] - B.A.</td>
<td>92</td>
</tr>
<tr>
<td>Interdisciplinary Social Sciences [AS] - B.A.</td>
<td>80</td>
</tr>
<tr>
<td>Interdisciplinary Social Sciences [AS] - B.A.</td>
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<td>Italian [AS] - B.A.</td>
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<td>Liberal Arts and Sciences [NC] - B.A. - Limited Access</td>
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<td>Liberal Studies [AS] - B.A. - Limited Access</td>
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<tr>
<td>Management [BA] - B.A./B.S. - Limited Access</td>
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<tr>
<td>Management Information Systems [BA]</td>
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<td>Mathematics [AS] - B.A.</td>
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<td>Music [FA] - B.M. (Performance, Composition, Jazz Studies)</td>
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<td>Music Education [FA] - B.A./B.S. (General (K-12), Instrumental (K-12), Vocal (K-12))</td>
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<td>Nursing, Basic [NU] - B.S. - Limited Access</td>
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<tr>
<td>Nursing, Registered [NU] - B.S. - Limited Access</td>
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<tr>
<td>Philosophy [AS] - B.A.</td>
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<tr>
<td>Physical Education [ED] - B.A./B.S. (Elementary (K-8), Secondary (6-12), Wellness Leadership)</td>
<td>180</td>
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<tr>
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<tr>
<td>Political Science [AS] - B.A.</td>
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*AS* = College of Arts and Sciences  
*BA* = College of Business Administration  
*ED* = College of Education  
*EN* = College of Engineering  
*FA* = College of Fine Arts  
*NC* = New College  
*NJ* = College of Nursing
# ACADEMIC CALENDAR FOR UNDERGRADUATE STUDENTS

## FALL SEMESTER, 1999

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<tr>
<th>Date</th>
<th>Day</th>
<th>Event</th>
</tr>
</thead>
<tbody>
<tr>
<td>March 1</td>
<td>Monday</td>
<td>Application Deadline Date for international applicants to apply for admission and submit all required credentials and supporting documents</td>
</tr>
<tr>
<td>June 1</td>
<td>Tuesday</td>
<td>Priority processing date for undergraduate and former students returning to apply for admission (except international applicants)</td>
</tr>
<tr>
<td>August 23</td>
<td>Monday</td>
<td>Classes begin</td>
</tr>
<tr>
<td>August 27</td>
<td>Friday</td>
<td>Last day to withdraw/drop and receive full refund of registration fees</td>
</tr>
<tr>
<td>August 27</td>
<td>Friday</td>
<td>Last day to add courses</td>
</tr>
<tr>
<td>August 27</td>
<td>Friday</td>
<td>Last day for late registration</td>
</tr>
<tr>
<td>September 3</td>
<td>Friday</td>
<td>CLAST Registration Deadline</td>
</tr>
<tr>
<td>September 6</td>
<td>Monday</td>
<td>Labor Day Holiday</td>
</tr>
<tr>
<td>September 10</td>
<td>Friday</td>
<td>Rosh Hashanah</td>
</tr>
<tr>
<td>September 17</td>
<td>Friday</td>
<td>Graduation Application Deadline</td>
</tr>
<tr>
<td>October 2</td>
<td>Saturday</td>
<td>CLAST Administration Day</td>
</tr>
<tr>
<td>October 15</td>
<td>Friday</td>
<td>Honors Convocation (Classes cancelled 2:00-5:00 p.m.)</td>
</tr>
<tr>
<td>October 22</td>
<td>Friday</td>
<td>Last day to drop or withdraw from courses without academic penalty</td>
</tr>
<tr>
<td>November 11</td>
<td>Thursday</td>
<td>Veteran's Day Holiday</td>
</tr>
<tr>
<td>November 25-26</td>
<td>Thursday-Friday</td>
<td>Thanksgiving Holidays</td>
</tr>
<tr>
<td>December 3</td>
<td>Friday</td>
<td>Classes End</td>
</tr>
<tr>
<td>December 4-10</td>
<td>Saturday-Friday</td>
<td>Final Examinations</td>
</tr>
<tr>
<td>December 12</td>
<td>Sunday</td>
<td>Commencement (Tampa)</td>
</tr>
<tr>
<td>December 13</td>
<td>Monday</td>
<td>Commencement (St. Petersburg)</td>
</tr>
<tr>
<td>December 14</td>
<td>Tuesday</td>
<td>Commencement (Sarasota)</td>
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</table>

## SPRING SEMESTER, 2000

<table>
<thead>
<tr>
<th>Date</th>
<th>Day</th>
<th>Event</th>
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</thead>
<tbody>
<tr>
<td>August 2</td>
<td>Monday</td>
<td>Application Deadline Date for international applicants to apply for admission and submit all required credentials and supporting documents</td>
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<tr>
<td>October 18</td>
<td>Monday</td>
<td>Priority processing date for undergraduate and former students returning to apply for admission (except international applicants)</td>
</tr>
<tr>
<td>January 10</td>
<td>Monday</td>
<td>Classes begin</td>
</tr>
<tr>
<td>January 14</td>
<td>Friday</td>
<td>Last day to withdraw/drop and receive full refund of registration fees</td>
</tr>
<tr>
<td>January 14</td>
<td>Friday</td>
<td>Last day to add courses</td>
</tr>
<tr>
<td>January 14</td>
<td>Friday</td>
<td>Last day for late registration</td>
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<tr>
<td>January 14</td>
<td>Friday</td>
<td>Last day to pay fees</td>
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<tr>
<td>January 17</td>
<td>Monday</td>
<td>Martin Luther King Holiday</td>
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<tr>
<td>January 21</td>
<td>Friday</td>
<td>CLAST Registration Deadline</td>
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<td>February 4</td>
<td>Friday</td>
<td>Graduation Application Deadline</td>
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<td>February 19</td>
<td>Saturday</td>
<td>CLAST Administration Day</td>
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<td>March 10</td>
<td>Friday</td>
<td>Last day to drop or withdraw from courses without academic penalty</td>
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<tr>
<td>March 13-17</td>
<td>Monday-Friday</td>
<td>Spring Semester Break</td>
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<td>April 28</td>
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<td>April 29-May 5</td>
<td>Saturday-Friday</td>
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<td>Friday</td>
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<td>May 6</td>
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<td>Commencement (Tampa)</td>
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<tr>
<td>May 7</td>
<td>Sunday</td>
<td>Commencement (St. Petersburg)</td>
</tr>
</tbody>
</table>
SUMMER TERM, 2000

SESSION A
(First Six-week Session)

**January 3**  
**Monday**  
Application Deadline Date for international applicants to apply for admission and submit all required credentials and supporting documents

**April 3**  
**Monday**  
Priority processing date for undergraduate and former students returning to apply for admission (except for international applicants)

**May 12**  
**Friday**  
CLAST Registration Deadline

**May 15**  
**Monday**  
Classes begin

**May 19**  
**Friday**  
Last day to withdraw/drop and receive full refund of registration fees

**May 19**  
**Friday**  
Last day to add courses

**May 19**  
**Friday**  
Last day for late registration

**May 19**  
**Friday**  
Last day to pay fees

**May 29**  
**Monday**  
Memorial Day Holiday

**June 2**  
**Friday**  
Last day to drop or withdraw from courses without academic penalty

**June 3**  
**Saturday**  
CLAST Administration Day

**June 9**  
**Friday**  
Graduation Application Deadline

**June 23**  
**Friday**  
Last day of classes

**June 26-30**  
**Monday-Friday**  
Summer Break between Session A and Session B

**August 12**  
**Saturday**  
Summer Commencement (Tampa)

SESSION B
(Second Six-week Session)

**January 3**  
**Monday**  
Application Deadline Date for international applicants to apply for admission and submit all required credentials and supporting documents

**April 3**  
**Monday**  
Priority processing date for undergraduate and former students returning to apply for admission (except for international applicants)

**June 9**  
**Friday**  
Graduation Application Deadline

**July 3**  
**Monday**  
Classes begin

**July 4**  
**Tuesday**  
Independence Day Holiday

**July 10**  
**Monday**  
Last day to withdraw/drop and receive full refund of registration fees

**July 10**  
**Monday**  
Last day to add courses

**July 10**  
**Monday**  
Last day for late registration

**July 10**  
**Monday**  
Last day to pay fees

**July 21**  
**Friday**  
Last day to drop or withdraw from courses without academic penalty

**August 11**  
**Friday**  
Last day of classes

**August 12**  
**Saturday**  
Summer Commencement (Tampa)

SESSION C
(Ten-week Session)

**January 3**  
**Monday**  
Application Deadline Date for international applicants to apply for admission and submit all required credentials and supporting documents

**April 3**  
**Monday**  
Priority processing date for undergraduate and former students returning to apply for admission (except for international applicants)

**May 12**  
**Friday**  
CLAST Registration Deadline

**May 15**  
**Monday**  
Classes begin

**May 19**  
**Friday**  
Last day to withdraw/drop and receive full refund of registration fees

**May 19**  
**Friday**  
Last day to add courses

**May 19**  
**Friday**  
Last day for late registration

**May 19**  
**Friday**  
Last day to pay fees

**May 29**  
**Monday**  
Memorial Day Holiday

**June 3**  
**Saturday**  
CLAST Administration Day

**June 23**  
**Friday**  
Last day to drop or withdraw from courses without academic penalty

**July 4**  
**Tuesday**  
Independence Day Holiday

**July 21**  
**Friday**  
Last day of classes

**August 12**  
**Saturday**  
Summer Commencement (Tampa)
ACCREDITATION

USF was originally fully accredited in 1965 by the Southern Association of Colleges and Schools, the official accrediting agency for educational institutions in the South. The University of South Florida is accredited by the Commission on Colleges of the Southern Association of Colleges and Schools to award degrees in the Baccalaureate, Master, Specialist and Doctoral levels, including the Doctor of Medicine.

DEGREES* OFFERED
AT THE UNIVERSITY

Undergraduate Degrees
Bachelor of Arts B.A. Master of Health Administration M.H.A.
Bachelor of Engineering Technology B.E.T. Master of Industrial Engineering M.I.E.
Bachelor of Fine Arts B.F.A. Master of Mechanical Engineering M.M.E.
Bachelor of Independent Studies B.I.S. Master of Music M.M.
Bachelor of Music B.M. Master of Public Administration M.P.A.
Bachelor of Science B.S. Master of Public Health M.P.H.
Bachelor of Science in Chemical Engineering B.S.C.H. Master of Science M.S.
Bachelor of Science in Civil Engineering B.S.C.E. Master of Science in Chemical Engineering M.S.C.H.
Bachelor of Science in Computer Engineering B.S.C.P. Master of Science in Civil Engineering M.S.C.E.
Bachelor of Science in Computer Science B.S.C.S. Master of Science in Computer Engineering M.S.C.P.
Bachelor of Science in Electrical Engineering B.S.E.E. Master of Science in Computer Science M.S.C.S.
Bachelor of Science in Engineering B.S.E. Master of Science in Electrical Engineering M.S.E.E.
Bachelor of Science in Engineering Science B.S.E.S. Master of Science in Engineering Management M.S.E.M.
Bachelor of Science in Industrial Engineering B.S.I.E. Master of Science in Engineering Science M.S.E.S.
Bachelor of Science in Information Systems B.S.I.S. Master of Science in Mechanical Engineering M.S.E.V.
Bachelor of Science in Mechanical Engineering B.S.M.E. Master of Science in Environmental Engineering M.S.E.V.
Bachelor of Social Work B.S.W. Master of Science in Industrial Engineering M.S.I.E.
Master of Science in Information Systems M.S.I.S.
Master of Science in Mechanical Engineering M.S.M.E.
Master of Science in Medical Sciences M.S.M.S.

Graduate Degrees
Master of Accountancy M.Acc. Master of Science in Public Health M.S.P.H.
Master of Architecture M.Arch. Master of Social Work M.S.W.
Master of Arts M.A.
Master of Business Administration M.B.A.
Master of Chemical Engineering M.C.H.E.
Master of Civil Engineering M.C.E.
Master of Computer Science M.C.S.
Master of Education M.Ed.
Master of Electrical Engineering M.E.E.
Master of Engineering M.E.
Master of Environmental Engineering M.E.V.E.
Master of Fine Arts M.F.A.

Advanced Graduate Degrees
Education Specialist Ed.S.
Doctor of Education Ed.D.
Doctor of Philosophy Ph.D.

Professional Degree
Doctor of Medicine M.D.

*See index for individual degree programs

The University of South Florida and all colleges, departments and programs therein establish certain academic requirements which 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 Florida Board of Regents.
UNIVERSITY OF SOUTH FLORIDA
Statement of Institutional Purpose

The University of South Florida is a multi-campus, comprehensive, research university strongly committed to the balanced pursuit of excellent teaching, significant research and useful public service. The University generates and disseminates new insights, knowledge and forms of expression; it prepares students for their personal lives, professional careers and contributions to society; and it serves its external communities through the citizenship and expertise of its faculty, staff, students and graduates.

The University of South Florida is committed to supporting and nurturing the free expression of ideas. It embraces the role of the university as a social critic and conscience and respects and defends the rights of faculty, staff and students to speak out and act responsibly upon the social implications of their knowledge. The University values an intellectually excellent, culturally diverse academic community of faculty, staff, and students. The University strives to provide an educationally challenging environment, within and beyond the classroom, that engages students and faculty in a common inquiry into the values of society and gives them a rational understanding of the need to accept and appreciate differences among people and cultures as a foundation for national and global welfare.

The three traditional activities of teaching, research, and public service are the foundation of the University’s mission. In the conduct and delivery of its programs, the University recognizes the special characteristics of its students and the opportunities provided by the location of its campuses in thriving metropolitan areas on Florida’s gulf coast. The University gives particular consideration to programs and activities that can build on these advantages to achieve national and international distinction.

As an institution dedicated to excellent teaching, the University’s fundamental objective is to evoke in its students a lifelong commitment to learning that enables them to become thoughtful, active, productive and compassionate citizens. The University provides to all undergraduates a strong common curriculum in liberal education that balances the acquisition of general knowledge with the development of intellectual honesty, curiosity, creativity, critical inquiry, and personal values and ethics that include a commitment to advancing the society in which they live. The University also recognizes the importance of student participation in the development of the institution through the Board of Trustees, faculty, staff, and students for the advantage of the larger community—students, faculty, staff, and alumni. The University actively encourages the use of the expertise of its community of the 21st century. The University’s fundamental goal is to evoke in its students a lifelong commitment to learning that enables them to become thoughtful, active, productive and compassionate citizens. The University is committed to the concept of total student development—intellectual, social, physical, emotional and moral. A major institutional focus is on providing programs and services that reflect standards of quality that foster the development of innovative student’s talents and responsibilities to the future.

USF offers a wide variety of degree programs with both basic and applied orientations, including 87 baccalaureate, 91 master’s, and 28 doctoral degrees, as well as the M.D. These degree programs are in the University’s Division of Academic Affairs and are administered in one of 10 schools and colleges: Architecture, Arts and Sciences, Business Administration, Education, Engineering, Fine Arts, Medicine, Nursing, Public Health and an honors college, New College of USF on the Sarasota campus. Specialized credit and non-credit programs are administered by the School of Continuing Education.

As an institution dedicated to excellent teaching, the University’s fundamental goal is to evoke in its students a lifelong commitment to learning that enables them to become thoughtful, active, productive, and compassionate citizens. The University is committed to the concept of total student development—intellectual, social, physical, emotional and moral. A major institutional focus is on providing programs and services that reflect standards of quality that foster the development of innovative student’s talents and responsibilities to the future.

This publication discusses the major undergraduate academic programs in the University that serve the people of Florida through the instruction of students, the advancement of knowledge, and community service.
USF AT TAMPA, SARASOTA, ST. PETERSBURG, LAKELAND

The University of South Florida's four campuses are within reach of more than 3 million people, roughly one quarter of the state's population -- in a 10-county area.

The USF academic programs offered in St. Petersburg, Sarasota/Manatee and Lakeland are designed primarily to serve students of junior, senior, and graduate standing. Programs are offered at times that meet the special needs of students, many of whom are residents in the campus area and are employed in full- and part-time jobs. Selected courses and programs are offered on the campuses by the colleges of Arts and Sciences, Business Administration, Education, Engineering and Nursing.

Students may enroll on a part-time or full-time basis on any one of the campuses or elect to enroll on more than one USF campus simultaneously. Dual enrollment may provide students with a schedule both academically flexible and personally convenient.

Resident faculty and Student Affairs staff provide students at all campuses with social, vocational, and academic counseling.

TAMPA: The central campus in Tampa, located on a 1,748-acre tract of land 10 miles northeast of downtown Tampa, serves a three-county area of over 2 million people. This is the largest campus, designed to serve students from throughout the state, nation, and many foreign countries from their freshman year through graduate school.

Nine schools and colleges are located on this campus, including, on the undergraduate level, the colleges of Arts and Sciences, Business Administration, Education, Engineering, Fine Arts and Nursing.

The campus is home to three hospitals or institutions that work closely with the colleges of Medicine, Nursing, and Public Health: the Shriner's Hospital for Crippled Children, the H. Lee Moffitt Cancer Center and Research Institute, and the Psychiatry Center. The University is also home to the Louis de la Parte Florida Mental Health Institute.

The Sun Dome, a multi-purpose facility with seating for 10,000, hosts an array of athletic contests, concerts, lectures, and programs.

The Phyllis P. Marshall Center, more so than any other campus facility, serves as a focal point for daily activity for students, faculty, alumni, guests, and visitors. The Phyllis P. Marshall Center houses a diversity of programs and services and a Special Events Center auditorium.

SARASOTA: The Sarasota/Manatee campus, which includes New College and is adjacent to the state-owned Ringling Museum, is located on the north edge of Sarasota about 10 miles south of Bradenton on U.S. Highway 41. The campus serves a population of more than 530,000 persons in a four-county area.

The University of South Florida at Sarasota/Manatee is an educational and cultural center of local, state and national significance. Its mission embraces two distinct academic opportunities: New College of USF and the University Program

New College is a residential, highly selective and innovative liberal arts college. The college encourages independent study and features small classes and tutorials. All students are four-year, full-time residential students. The University Program emphasizes junior, senior, and graduate courses and degrees in Arts and Sciences, Business, Education, Engineering and Nursing. They serve full- and part-time commuting students and the educational needs of professionals in Manatee, Sarasota, Hardee and Desoto counties. The campus also has a significant responsibility for historic and environmental preservation and enhancement of the beautiful Ringlings' and Caples' estates.

USF at Sarasota/New College has more than 40 buildings including a fitness center, student center, classrooms, science laboratories, and student residences. A $6.1-million campus library opened in 1986. The Sudakoff Lecture and Conference Center, a gift from Sarasota philanthropist Harry Sudakoff, opened in 1985.

ST. PETERSBURG: The St. Petersburg campus is located on Bayboro Harbor in downtown St. Petersburg. This waterfront campus hosts colleges of Business, Education, Nursing and Arts and Sciences, and is nationally recognized for its graduate program in Marine Science. USF St. Petersburg also houses a Center for Ethics, the Knight Oceanographic Research Center, a 160,000-volume library, a fitness center and other student recreational facilities

Noteworthy programs include a respected graduate program in journalism studies that emphasizes public journalism and ethics, and related writing components such as the Florida Suncoast Writers' Conference. The campus holds several endowed chairs whose scholars are in the fields of media ethics, ethics and marine science.

USF St. Petersburg serves junior, senior and graduate students, and is the only public university in Pinellas County, an area of 1 million people.

The 33-year-old campus is USF's largest regional branch and was the State University System's prototype for such campuses. The U.S. Geological Survey's Center for Coastal Geology, the Florida Institute of Oceanography and a branch of the Department of Environmental Protection are located here. A medical, research and cultural complex also surrounds the campus.

LAKELAND: The University of South Florida at Lakeland extends access to higher education into central portions of the state in the counties of Polk, Highlands and Hardee with population of 550,000.

The Lakeland campus opened in January 1988 on a 135-acre site in a new and innovative facility built for the combined use of Polk Community College (PCC) and the University. The facility is located on State Road 540 on the southeast side of the city, which allows ease of access to residents of the surrounding counties.

PCC offers freshman and sophomore courses while USF provides junior, senior and graduate courses in selected academic disciplines.

USF at Lakeland is designed to provide not only traditional classroom instruction but also to take advantage of advanced educational technologies. Lakeland has television receiving and transmitting classrooms and labs for individualized computer instruction. The television capabilities provide students access to outstanding faculty at USF through two-way video and audio communication. The computer labs allow students to work with personal computers and still have access to the main computing facility in Tampa, as well as from their homes.

Lakeland offers undergraduate degree programs in Business, Criminology, Interdisciplinary Social Sciences, Education and Engineering. Graduate programs are offered in Education, Engineering, Criminology and Public Administration. The presence of the campus plays an important role in the attraction of new industries to the area and the retention of existing companies by providing highly skilled professionals as a result of completing a bachelor's degree in the same location.

FACILITIES AND ATMOSPHERE

The facilities of the USF Tampa campus, now including more than 200 major buildings, are currently valued at more than $300 million. The buildings are of similar modern architectural design and all are completely air conditioned. The Tampa campus has a variety of recreational facilities, including: a gymnasion that features a weight room and natatorium; a 400-meter track; two outdoor swimming pools; 22 tennis courts; six handball/racquetball courts; an 18-hole golf course; two parcours, one for running and one for walking; one baseball and four softball fields; four outdoor basketball and volleyball courts; and a new multi-million dollar recreation center.

USF ST. PETERSBURG AT SARASOTA/ST. PETERSBURG, LAKELAND
In St. Petersburg, students can enjoy an outdoor pool or take part in the waterfront program that features sailboats and canoes available for use. In Sarasota, there is a 400-meter track and a new library.

The campus atmosphere is informal. Students and faculty dress casually and enjoy an unusually close relationship. Some classes are even held outside to take advantage of the area's extraordinary climate (average annual temperature is 72°F). Most buildings have open hallways, which blend colorful interiors with spacious exteriors, symbolically and architecturally suggesting the casual accessibility that has become a USF trademark.

UNIVERSITY POLICE

The University of South Florida Police Department provides a full range of public safety services to the community 24 hours a day, 7 days a week on the Tampa, Sarasota, and St. Petersburg Campuses. All University Police officers are certified by the State of Florida after completing minimum standards training at the local Regional Police Training Academy. The University of South Florida Police Department is in the process of seeking accredited status through the Commission for Florida Law Enforcement Accreditation. Accreditation is the certification by an independent reviewing authority that an entity has met specific requirements and prescribed standards, and has long been recognized as a means of maintaining the highest standards of professionalism.

General services provided by the University Police include car patrol, foot patrol, criminal investigation of all misdemeanors and felonies, traffic law enforcement, traffic crash investigation, special events management, and crime prevention programs.

The University Police Department has an excellent working relationship with all local law enforcement agencies which assures the delivery of professional police services. The Florida Department of Law Enforcement and other state and federal agencies are available to assist upon request. Communication and coordination with all area law enforcement agencies are maintained on a 24 hour basis via computer networks, such as the Florida Crime Information Center and the National Crime Information Center.

- On the Tampa Campus the University Police Department is located at the corner of Fletcher Avenue and Maple Drive. The emergency number is "9-1-1" and the non-emergency number is (813) 974-2628.

- On the Sarasota Campus the University Police Department is located near the intersection of Tamiami Trail (U.S. Highway 41) and General Spatz Boulevard. The emergency number is "5-9-1-1" and the non-emergency number is (941) 359-4212.

- On the St. Petersburg Campus the University Police Department is located near the intersection of Fifth Avenue South and Second Street South. The emergency number is "1-9-1-1" and the non-emergency number is (813) 553-1140.

The Lakeland Campus of the University of South Florida is located at Polk Community College. Basic public safety services are provided by the security department of the community college. Law enforcement services, including the investigation of criminal acts, are provided on a routine basis by the Polk County Sheriff's Office in Lakeland. The University Police Department provides law enforcement or crime prevention services at this location on an as needed basis.

VICTIMS' ADVOCACY PROGRAM

The Victims' Advocacy Program is available to assist all USF students, staff, faculty and visitors who are victims of actual or threatened abuse/violence. Offenses may include but are not limited to battery, assault, stalking, relationship/domestic violence, childhood victimization, sexual battery (date/accquaintance/stranger rape), hate crimes and prior abuse.

Advocates are available 24 hours a day to provide crisis intervention, options, assistance and referrals. Police reports are not necessary to receive services from an advocate, and services are free and confidential. Office hours are 8:00 - 5:00 Monday through Friday.

IMPORTANT NUMBERS

Services are available 24 hours a day, seven days a week.

USF POLICE EMERGENCY 911 OR 974-2628
USF VICTIM ADVOCATE 974-5757
REGULAR OFFICE NUMBER 974-5756
LOCATION ADM 273
HILLSBOROUGH COUNTY CRISIS LINE 234-1234

EQUAL OPPORTUNITY POLICY

It is the goal of the University to create and maintain a work and study environment free of discrimination. Discrimination on the basis of race, color, sex, marital status, religion, national origin, Vietnam or disabled veteran status, handicap, or age is prohibited by University policies, federal and state laws. Any person who believes that he or she has been subjected to discrimination may file a complaint with the Office of Equal Opportunity Affairs, ADM 274. The telephone number is 974-4373. It shall be prohibited for any employee of USF to discriminate or take retaliatory action against any individual who, in good faith, has opposed an alleged unlawful practice or has made a charge, testified, assisted, or participated in any manner in an investigation, proceeding, or hearing under the provisions of applicable law.

GUIDE TO RESOURCES FOR STUDENTS WITH DISABILITIES

All University programs, events, and services are open and available to persons with disabilities. The University of South Florida is committed to the principles of Equal Educational and Employment Opportunities without regard to disability.

Academic Assistance for student with disabilities: Student Disability Services exists to ensure that students with disabilities have the technical, academic, and emotional support necessary to achieve academic and personal success at the University of South Florida. Course related assistance and academic accommodations are provided to eligible students with documented disabilities. Services may include advocacy, reader services, interpreters, alternate exam administration, note takers, and adaptive equipment such as FM systems, large print computer access, and Visualtek. Students are encouraged to contact our office as early as possible prior to enrollment to make arrangements for appropriate services.

Admissions: Students with disabilities apply under the same guidelines as other students. If students believe that their disability has had an impact on grades, course choice or standardized test scores for admission, they may request consideration of this in the admissions process.

Course Substitution: Students with disabilities requesting substitution of course work for General Education, foreign language requirements, or CLAST should contact the Director of Student Disability Services. Students with declared majors requesting substitution of departmental graduation requirements will need to contact the chair of their department. In either case, students will be requested to submit documentation to support their request for an exception.

Disabled Parking: Students with state parking privileges need only supply their state card as documentation for eligibility for a USF disabled parking hangtag/sticker. Students without state privileges need medical documentation to be considered for on-campus disabled parking.
Housing: Accessible on-campus residence hall housing is available for students with special needs. Specific information is available through the Residence Hall Director’s Office.

Students with disabilities are encouraged to participate fully in all University events, programs, and other campus activities. Information on whom to contact to request accommodation or assistance should be listed on program information and advertisements. If you are unable to secure the requested assistance or need additional help with accessibility contact the Equal Opportunity Office.

The following offices arrange academic accommodations and assistance for students with disabilities:

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<thead>
<tr>
<th>Campus</th>
<th>Office/Department</th>
<th>Phone</th>
</tr>
</thead>
<tbody>
<tr>
<td>Tampa Campus</td>
<td>Director of Student Disability Services</td>
<td>voice 813-974-4309 (TDD) 813-974-5651</td>
</tr>
<tr>
<td>Sarasota Campus</td>
<td>Coordinator for Advising for Special Needs Students</td>
<td>813-359-4330</td>
</tr>
<tr>
<td>Lakeland Campus</td>
<td>Office of the Director for Academic Services</td>
<td>941-677-7000</td>
</tr>
<tr>
<td>St. Petersburg Campus</td>
<td>Office of the Director, Student Affairs</td>
<td>813-893-9162</td>
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Admission to the University of South Florida requires evidence of ability to handle academic work, capacity to think creatively, and strong motivation. The minimum admission requirements are designed to help identify applicants whose academic background indicates potential for success at USF; however, satisfaction of minimum admission requirements does not guarantee acceptance. The admission of new students at all levels is on a selective basis within curricular, space, and fiscal limitations. The selection process may include such factors as grades, test scores, pattern of courses completed, class rank, educational objectives, past conduct, school recommendations, personal recommendations, and portfolios. Preference for admission in any term will be given to those applicants whose credentials indicate the greatest promise of academic success.

The University encourages applications from qualified applicants of both sexes and from all cultural, racial, religious, ethnic, and age groups. In the admission process there is no discrimination on the basis of sex, race, color, age, handicap, national origin, or ancestry. (Applicants who do not meet minimum admission requirements will be considered for admission when there is sufficient evidence to suggest ability to do satisfactory work at USF. These policies are further described under “Applying for Admission” and “Requirements for Admission.”)

The University supports equal educational opportunity for disadvantaged students. Requests for waiver of the $20.00 application fee are considered by the Director of Admissions if payment of this fee creates severe financial hardship and serves as a deterrent to application.

Students are admitted to USF in accordance with the mission and goals of the University and within enrollment limitations established by the Board of Regents and the Florida Legislature.

Applying for Admission

Obtaining an Application

As part of the State University System (SUS) of Florida, USF uses the common SUS Application Form for undergraduates. Applicants who are attending Florida high schools or Florida community/junior colleges may obtain the SUS Application Form in school guidance offices. The SUS International Student Application for Admission, as well as the SUS Application, may be requested from the Office of Admissions, SVC 1036, USF, Tampa, FL 33620-6900. All of the application forms are also available on USF campuses in St. Petersburg, Sarasota, and Lakeland. (When requesting an application, please indicate in a significant category - freshman, undergraduate transfer, or international student.) Applications can be requested by e-mail at bullseye@admin.usf.edu.

When to Apply

Applications for admission are accepted as early as 12 months before the requested entry term. Applications for admission and the $20.00 non-refundable application fee should be submitted by the priority date (see academic calendar) for the requested entry term or by the application deadline for the requested degree program (see specific program in this catalog), whichever is earlier. The priority date is normally about ten weeks prior to the first day of classes in each term. Applications for admission and application fees from international students (non-resident aliens) must be received at least five months prior to the requested entry term. Applications submitted after the priority date will be accepted but processing for the requested term of entry cannot be guaranteed.

Who Should Apply

An application for admission must be submitted by all students who have not been admitted to and enrolled in a USF degree program within the last three terms. Former or continuing USF degree-seeking students must file another application for admission when applying for a second degree program, another level of study or readmission (see Readmission). Anyone who has previously been admitted and enrolled as a degree-seeking student and has paid an application fee will not be required to pay another fee.

The Director of Admissions may waive payment of the application fee for disadvantaged applicants if the fee serves as a deterrent to application.

Changing Requested Term of Entry

Applicants may update their application for admission for up to one year from the originally requested semester of admission. All requests for changes of entry term must specify any academic work attempted that was not reflected on the original application and must be received by the appropriate published application deadline for the new term of entry or degree program specified, whichever is earlier. Additionally, any issues related to criminal or academic misconduct that were not reflected on the initial application must be reported to the Office of Admissions. A new application and fee must be submitted when applicants wish to be considered for admission for a term that begins more than 12 months after the originally requested entry term.

An applicant who requests a new entry term must meet the admissions requirements in effect for the new term requested. Entry for some programs are limited to specified terms.

General Admission Policies

- All official transcripts, test scores, and any other required credentials must be received directly from the issuing agencies. It is the applicant’s responsibility to initiate the request for credentials to the issuing agencies and to assure their receipt by the USF Office of Admissions in Tampa.
- All credentials and documents submitted become the property of USF. The originals or copies of the originals will not be returned to the applicant or forwarded to another institution, agency, or person.
- An applicant admitted on a provisional basis must submit the requested missing credentials, such as official final transcripts or test scores, which must substantiate eligibility for admission before a second registration will be permitted. Receipt of final official credentials which fail to substantiate eligibility will result in rescission of admission, reclassification to non-degree status, and denial of continued enrollment in subsequent terms.
- Applicants who do not meet standard Board of Regents minimum admission requirements may be admitted to the University on academic probation. Students admitted on probationary status must accumulate 30 semester credits and maintain a minimum cumulative 2.0 grade point average (GPA) each term enrolled with no single term GPA below a 1.0 GPA before the probationary status is removed (A term GPA below 2.0 in the first term of enrollment results in permanent academic dismissal). Advising is mandatory prior to registration. Failure to meet these conditions results in permanent academic dismissal from the University.
- An undergraduate applicant who is denied admission may be eligible to appeal and will be advised of applicable appeal procedures by the Office of Admissions.
- An application for admission or a residency affidavit submitted by or on behalf of a student which contains false, fraudulent, or incomplete statements may result in denial of admission, further registration and/or degrees awarded.
- The University may refuse admission to a student whose record shows previous misconduct not in the best interest of citizens of the University community.
- All students entering the University with fewer than 60 semester hours of college level academic work are required to earn at least 9 semester hours during one or more Summer terms prior to graduation (see Summer enrollment requirements).
- All undergraduate transfer students admitted to USF must earn passing scores on all four sections of the College Level...
Quota/Limited Access Programs

Undergraduates seeking entrance to quota/Limited access degree programs must meet special program requirements in addition to requirements for admission to the University. While many quota/Limited access programs admit students only at the junior level, some programs admit students for the freshman or sophomore years. The admission criteria and procedures for quota/Limited access programs at USF are published in the Academic Programs section of this catalog and in appropriate sections of the academic program catalog.

Minimum Requirements for Admission

Freshman Applicants

To be considered for admission, freshman applicants must submit an application and meet the minimum requirements for admission. A non-refundable application fee of $20.00, an official high school transcript, official GED scores if applicable, SAT or ACT scores, and a TOEFL score if applicable.

Although USF has minimum freshman admission requirements, meeting these minimum standards does not guarantee admission. Applicants selected for admission usually exceed the eligibility requirements; however, USF also considers applicants who do not fully meet minimum requirements but who have important attributes, special talents or unique circumstances that contribute to a representative and diverse student body. These freshman applicants are considered for admission by a faculty committee on the basis of other appropriate evidence of ability to do successful academic work at USF.

For purposes of admission, USF recomputes a high school grade point average (GPA) based on grades earned in all college preparatory academic courses. In recomputing a GPA, USF assigns additional weights to grades earned in honors, Advanced Placement courses and International Baccalaureate courses.

The University normally requires a diploma from a Florida public or a regionally accredited high school or the state-approved General Education Development (GED) diploma. Students admitted under the Early Admission Programs are exempted from this requirement. Students who are participating in an approved home schooling program are expected to provide acceptable copies of annual evaluations for the equivalent of grades 9 through 11. A portfolio or additional documentation may be requested if deemed necessary to complete an appropriate evaluation for admission. Other minimum requirements are outlined below.

1. Freshman applicants must submit an official test score from the Scholastic Aptitude Test (SAT) or the American College Test (ACT).

2. For freshman applicants earning a high school diploma, the following college preparatory academic units (year-long courses or equivalents) normally offered in grades nine through twelve are required: four units of English (three of the four must incorporate substantial writing requirements); three units of mathematics (algebra I and above); three units of natural sciences (two of the three must incorporate substantial laboratory requirements); three units of social sciences (history, civics, political science, economics, sociology, psychology and geography); two units of the same foreign language; and four additional units of academic electives. Substitution for any high school unit requirement may be provided for applicants who are hearing impaired, visually impaired, dyslexic or who have a specific learning disability. Documentation of the disability and its relationship to the substitution of a unit requirement should be submitted with the application for admission.

3. Freshman applicants must meet one of the following to be considered for admission in good standing; however, satisfying these minimum requirements does not guarantee admission:

   a. At least a “B” average (3.0 on a 4.0 scale), as computed by USF (an SAT or ACT score must be submitted but no minimum is required).

   b. A combination of high school GPA (as computed by USF) and admission test scores equivalent to a 2.5 (on a 4.0 scale) and an SAT I verbal and quantitative combined score of 1010 or a comparable composite score on the ACT as indicated in the Admissions Scale below.
Students at USF must:
1. Complete the equivalent of the junior year of high school, thus requiring only one additional year to complete requirements for the high school diploma;
2. Submit a completed SUS Application for Admission and $20 non-refundable application fee;
3. Have proof of a 1200 on the SAT I with no less than 420 on SAT I V (Verbal) and 440 on SAT I Q (Quantitative); or a 27 on the EACT with no less than or a score of 18 on ACT English and EACT Reading and a score of 18 on ACT Mathematics and a 3.5 high school grade point average (computed by USF) and a TOEFL score, if applicable;
4. Must meet regular USF admission criteria for degree-seeking undergraduate students;
5. Submit a personal letter outlining reasons for seeking early admission;
6. Submit a signed statement of approval from high school principal or guidance counselor;
7. Submit completed Supplemental Information for Early Admission Form;
8. Submit a list of credits needed to graduate from high school;
9. Meet with USF Honors Program Director or Academic Advisor;
10. Home schooled students must submit an official copy of their Letter of Intent with the student’s home school district;
11. Private school students must submit proof that their school is a SACS certified school.

### Undergraduate Transfer Applicants

Applicants with fewer than sixty transferable semester credits are considered lower-level transfers. Upper-level transfers are those with 60 or more transferable semester credits. The requirements for admission for both categories of transfer students are described below. Regardless of category, grade-point averages (GPA) for purpose of admission will be computed based only on grades earned in courses that are acceptable for transfer credit and as calculated by USF.

USF accepts transfer credits only from institutions that are accredited by one of the regional accrediting agencies/commissions recognized by USF at the time the credits are earned (See Evaluation of Transfer Credit). All credits earned during the period of time a regionally accredited institution was in a "candidacy" status for accreditation are considered for transfer credit. Credits earned at an institution that is currently in "candidacy" status will not be considered for transfer credit until such time as the awarding institution receives full regional accreditation. For an applicant applying from a non-regionally accredited school, the admissions decision will be based on prior work at a regionally accredited institution. If all post-secondary work is from a non-regionally accredited school, the evaluation will be based on the high school record and test scores and the applicant will be regarded as a freshman for purposes of admission.

USF reserves the right to evaluate specific courses and deny transfer credit. USF does not award transfer credit that is determined to be occupational or vocational in nature.

### Lower-Level Transfer Applicants

(with fewer than 60 transferable semester credits)

To be considered for admission, transfer applicants with fewer than 60 transferable semester credits must submit an SUS Application for Admission, a non-refundable application fee of $20.00, an official transcript from each previous college attended, an official high school transcript, official GED scores if applicable, official SAT or ACT scores, and a TOEFL score if applicable.

Lower-Level transfer applicants must minimally meet the following requirements to be considered for admission in good standing; however, satisfying these minimum requirements does not guarantee admission:
1. Be in good standing and eligible to return to the last regionally accredited institution attended as a degree-seeking student;
2. Have an overall "C" average (2.0 on a 4.0 scale) as calculated by USF in all college-level courses acceptable for transfer credit to USF. (In the calculation of the GPA, incomplete grades are computed as failures and course "repeats" are not forgiven when the courses are repeated at different institutions);
3. Satisfy fully all freshman admissions standards as described in the previous section entitled "Freshman Applicants." (Meeting freshman admission standards is a critical requirement for undergraduate applicants with fewer than 60 transferable credits. Board of Regents rules and policies do not provide for local exceptions to these requirements).
4. Complete (with passing grades) two years of the same foreign language in high school or 8 to 10 semester hours of the same foreign language at the post-secondary level (as required by Florida Statute 240.233);

5. Present a minimum score of 550 on the Test of English as a Foreign Language (TOEFL) if the applicant's native language is not English. The TOEFL requirement may be waived on an individual basis when appropriate alternative evidence of English language proficiency is presented in writing. If otherwise qualified, applicants who present TOEFL scores between 500 and 550 may be considered for admission on the condition that they must take a specified sequence of English courses. International citizens (non-resident aliens) must also comply with all requirements for international applicants.

USF also considers applicants who do not fully meet the minimum requirements as stated in #1. and #2. above but who have important attributes, special talents, or unique circumstances that may contribute to a representative and diverse student body. These undergraduate transfer applicants are considered for admission by a faculty committee on the basis of other appropriate evidence of promise for academic success. These applicants should also submit appropriate alternative evidence of academic achievement, ability, motivation, and responsibility that supports potential for academic success at USF.

Upper-Level Transfer Applicants
(with 60 or more transferable semester credits)

To be considered for admission, transfer applicants with 60 or more transferable semester credits must submit an SUS Application for Admission, a non-refundable application fee of $20.00, an official transcript from each previous college attended, and a TOEFL score if applicable.

Any transfer student with 90 or more semester hours who designates a desire for admission to a limited access undergraduate program must meet the overall admission GPA criteria of that program in order to be admitted to the University.

Applicants with Associate of Arts (A.A.) degrees from Florida public institutions will be admitted as juniors into the University within curricular, space and fiscal limitations. A.A. degree holders seeking admission to quota/limited access degree programs must also meet all requirements specified by the desired program. The admission of Florida community/junior college A.A. transfer students is governed by the Articulation Agreement between state universities and public community colleges in Florida.

Undergraduate transfer students who have not earned the A.A. degree from a Florida public institution or who have attended another college after receipt of the A.A. must meet the minimum requirements listed below to be admitted in good standing:

1. Be in good standing and eligible to return to the last regionally accredited institution attended as a degree-seeking student;
2. Have an overall "C" average as calculated by USF(2.0 on a 4.0 scale) in all college-level courses acceptable for transfer credit to USF. (In calculation of the GPA, incomplete grades are computed as failures and course "repeats" are not forgiven when the courses are repeated at different institutions.);
3. Complete (with passing grades) two years of the same foreign language in high school or 8 to 10 semester hours of the same foreign language at a previous college or university (as required by Florida Statute 240.233). Students who entered a Florida public community college prior to August 1, 1989 and maintain continuous enrollment until the time of their USF entry as degree-seeking students may be admitted without the required foreign language study;
4. Meet the minimum grade point average required by the program if entering a quota/limited access program and transferring 90 or more semester hours;
5. Present a minimum score of 550 on the Test of English as a Foreign Language (TOEFL) if the applicant's native language is not English. The TOEFL requirement may be waived on an individual basis when appropriate alternative evidence of English language proficiency is presented in writing. (The colleges of Business and Engineering normally require the TOEFL score regardless of prior educational background and/or degrees earned.) If otherwise qualified, applicants who present TOEFL scores between 500 and 550 may be considered for admission on the condition that they must take a specified sequence of English courses. International citizens (non-resident aliens) must also comply with all requirements for international applicants.

USF also considers applicants who do not fully meet the minimum requirements as stated in #1. and #2. above but who have important attributes, special talents or unique circumstances that may contribute to a representative and diverse student body. These undergraduate transfer applicants are considered for admission by a faculty committee on the basis of other appropriate evidence of promise for academic success.

These applicants also submit alternative evidence of academic achievement, ability, motivation, and responsibility that indicates a potential for academic success at USF.

Evaluation of Transfer Credit

1. The receipt and evaluation of transfer credit is the responsibility of the Office of Admissions. The Office of Admissions will evaluate the acceptability of total credits transferable to the University. The college of the student's major will assign equivalent courses in determining which courses are applicable toward a specific degree at the University. In some instances, exact course equivalents may be determined by other colleges which offer the same or similar courses as part of their programs of study. Transfer students should be prepared with personal copies of their transcripts of all prior course work to discuss advisement and placement with the appropriate academic advisor and who contact the college of their major soon after registration so that an official evaluation may be completed.

2. USF will accept credits only from those institutions accredited by one of the regional accrediting agencies/commisions* at the time the credits are earned. (See * below for agencies recognized by USF.) All credits earned during the period of time a regionally accredited institution was in a "candidacy" status for accreditation are considered for transfer credit. Credits earned at an institution that is currently in "candidacy" status will not be considered for transfer credit until such time as the awarding institution receives full accreditation.

3. USF reserves the right to deny credit for specific courses. USF does not award transfer credit from institutions that is determined to be occupational or vocational in nature.

4. Associate of Arts (A.A.) degree holders from Florida public accredited institutions will be considered as having met USF general distribution requirements and are automatically awarded 60 semester hours of credit. A course-by-course transfer credit evaluation will be done for all out-of-state and private in-state A.A. degree holders.

5. Effective Fall Quarter 1976, all courses from a Florida Community College/University bearing the same State Common Course prefix and last three numbers as a USF course are automatically transferred and transfer students may not be required to repeat these courses, unless a college age-of-record policy is involved. Excluded are graduate courses, studio courses in art, internships, practicums, and performing arts courses such as dance, acting, vocal, and instrumental music.

6. Virtually all USF baccalaureate degree requirements that at least 60 semester hours be earned from a baccalaureate-granting institution regardless of credit hours transferred
from a community/junior college unless the student has received prior approval for waiver of this policy from the college of his/her intended major. This policy does not affect approved articulated programs based on the A.S. degree. For information regarding specific articulated A.S. degree programs, consult the Office of Adult and Transfer Student Services.

7. Credit will not be awarded for GED tests.

8. Military service school courses will be evaluated with reference to the recommendation of the American Council of Education when official credentials have been presented. Such recommendation, however, is not binding upon the University.

9. The maximum credit for ROTC and military science courses will vary with each college. A student must confer with his/her college advisor to determine the acceptability for his/her major. This was effective Fall Quarter, 1975. ROTC and military science taken prior to Fall, 1975, are not acceptable for transfer credit.

10. A maximum of 45 semester hours of College Level Examination Program (subject and general examinations) credits can be accepted for transfer credit.

11. A maximum of 30 semester hours of extension, correspondence, and military service education credits can be applied toward a degree.

12. Grades earned in transferred courses are not computed in the student’s USF GPA except for the purposes of admission to limited access programs, the awarding of honors at graduation, and class ranking of baccalaureate students.

13. International credentials must be evaluated by an independent evaluation service, with associated costs to be paid by the student.

14. A continuously-enrolled USF degree-seeking student must obtain prior written approval from the college of the student’s major in order for courses taken at other regionally-accredited institutions to be applied to the USF degree program.

* Accrediting Agencies/Commissions: New England Association of Schools and Colleges, Commission on Institutions of Higher Learning; Middle States Association of Colleges and Secondary Schools, Commission on Higher Education; North Central Association of Colleges and Schools; Northwest Association of Schools and Colleges; Southern Association of Colleges and Schools, Commission on Colleges; Western Association of Schools and Colleges, Accrediting Commission for Senior Colleges and Accrediting Commission for Junior Colleges.

Graduate Applicants
Graduate applicants should refer to the USF Graduate Catalog.

International Applicants (non-resident aliens)
To be considered for admission, international applicants (non-resident aliens) must submit a USF International Student Application for Admission, a non-refundable application fee of $20.00 payable in U.S. dollars, a TOEFL score if applicable, a Statement of Financial Responsibility, undergraduate or graduate admissions test scores as specified for appropriate applicant category, transcripts showing subjects and grades from the first year of secondary work to the time of application, and a Visa Clearance Form (if currently in the U.S.). Transcripts in a language other than English must be accompanied by a certified English translation.

International credentials must be evaluated by an independent evaluation service, with associated costs to be paid by the student. Information about recommended and approved independent evaluators is available from the Office of Admissions.

An international applicant (non-resident alien) must meet all admission requirements for the appropriate applicant category (freshman, undergraduate transfer, graduate). Other minimum requirements are as follows:

1. An international applicant whose native language is not English must present a minimum score of 550 on the Test of English as a Foreign Language (TOEFL). This requirement may be waived if the applicant has an A.A. degree from a Florida community/junior college or SUS institution. (The colleges of Engineering and Business normally require the TOEFL score regardless of prior educational background.) If otherwise qualified, applicants who present TOEFL scores between 500 and 550 may be considered for admission with the condition that they must take a specified sequence of English courses.

2. International applicants must be in good standing at the last institution attended.

3. International applicants must submit the USF Financial Statement substantiating availability of financial resources sufficient to cover all educational, maintenance, and personal expenses while attending USF, without financial assistance from the University.

4. International applicants seeking admission to limited access undergraduate degree programs must also meet all requirements specified by the program.

Transient Applicants
An undergraduate transient student is one who comes to the University from another regionally accredited institution and wishes to take courses at USF for one term only before returning to the parent institution. Transient students may enroll at USF as non-degree-seeking students. (See Non-Degree-Seeking Students.)

Honors Program
Superior students in all majors may avail themselves of Honors opportunities at USF. University Honors Program-Four Year Track is designed for first-time-in-college students. University Honors Program-Two Year Track is designed for transfer or upper-level students. These exciting programs are grounded in the liberal arts tradition and intended for students regardless of major. The primary goals of University Honors are the development of critical thinking skills, an appreciation of the liberal arts tradition and the development of creative, independent thought. (See complete Program description in Undergraduate Studies.)

Potential University Honors Program-Four Year Track students are actively recruited, but any interested student who feels that he/she is qualified may request admission. Students typically have 3.75 high school GPAs and 1300 SAT I or 29 ACT scores. Many scholarships are available for Honors students.

Potential University Honors Program-Two Year Track students are actively recruited, but any interested student who feels that he/she is qualified may request admission. Students typically have 3.50 college GPAs and 1270 SAT I or 29 ACT scores. Many scholarships are available for Honors students.

Departmental Honors Programs are available in selected departments that wish to offer Honors-level work for superior students majoring in their disciplines. Requirements vary according to department, but all require the completion of a Thesis. Students may enroll in both University and Departmental Honors. Students in two Honors Programs are required to complete only one thesis.

Admission to University Honors is determined by the University Honors Committee and the Director of Honors; admission to Departmental Honors is determined by the individual department. Students who satisfactorily complete Honors and graduate with at least an overall GPA of 3.3 and a USF GPA of 3.3 shall be identified as Honors Program Graduates at Commencement as well as on their diplomas and transcripts.

St. Petersburg Campus Honors Program
The St. Petersburg Campus offers an interdisciplinary Campus Honors Program to superior students in all majors who have transferred to USF with or without an A.A. degree. The Campus Honors Committee and Director determine admission to the program. Applications should be submitted to the Director on the St. Petersburg Campus. (See complete Program description in Undergraduate Studies.)

Scholars' Community
The USF Scholars' Community is for students who have
opportunities for accelerated progress

Evening Courses
Each semester, special advising and counseling are always available to students in the Honors Program and Scholars' Community. The Honors Band performs regularly and students have the opportunity to go to conferences and conventions. Students in both the Community and in Honors have the option of living in the Honors residence hall on campus. The Lounge in Cooper Hall serves as a social hub for students. Organized social activities and projects are carefully planned for students. The Honors Band performs regularly and students have the opportunity to go to conferences and conventions. Honors and Community students are among the first to register and students have the opportunity to socialize and study with others.

Learning Communities
Specially designed for beginning freshmen, the Learning Communities at the main campus in Tampa allow students to complete most of their General Education Requirements during their first two years as part of a community of 50 students and selected faculty. Students take two or three courses within the Learning Community each term, in addition to two or three courses outside of the community. The Learning Community classes are challenging, interdisciplinary courses that are team taught by faculty utilizing interactive teaching methods. Students are active participants in their education, and the collaborative learning environment of the Learning Community encourages the development of friendships between students and between students and faculty. The interdisciplinary focus of all communities helps students make connections between the various disciplines that comprise the General Education curriculum, while including the dimensions of values/ethics, international and environmental perspectives, race/ethnicity, and gender. Through an approach called “writing across the curriculum,” students develop critical thinking and writing skills as they write about the subjects they are studying in the community. In addition, students in the Learning Communities communicate with each other through e-mail, and develop information literacy and library research skills through the use of the World Wide Web.

Several distinct Learning Communities are available each year, focusing on different themes, with one community reserved for students who wish to live on campus in the same residence hall. Open to all freshmen who are qualified to begin Freshmen English (minimum SAT Verbal 420 or EACT English 16), selection of students for the Learning Communities is based on space availability at the time of application. However, students considering applying for the Learning Communities should be flexible and open to non-traditional instructional methods. Interested students may phone Albert Latina (813) 974-8127, email latina@chuma.cs.usf.edu, or visit our Web site at http://www.usf.edu/~lc/.

Other General Information

Evening Courses
The admission requirements and achievement levels in the day and evening courses are the same. Any student accepted to the University may enroll in any appropriate courses offered in the evening.

Opportunities for Accelerated Progress Toward Undergraduate Degrees
USF provides several options by which students may accelerate their progress toward completing the baccalaureate degree. These options recognize knowledge which has been acquired prior to or during attendance at USF and provide the opportunity to earn University credit. Options which may be used include the following:

1. Recognition of satisfactory performance on tests offered through the College Level Examination Program (see CLEP).
2. Recognition of satisfactory performance on tests offered through the Advanced Placement Programs of the College Entrance Examination Board (see Advanced Placement Credit Programs).
3. Dual enrollment as a non-degree-seeking student at USF prior to graduation from high school or a community college (see Dual Enrollment [High School]). Community college students should follow eligibility criteria for non-degree seeking students (below) as well as their home school procedures.
4. Early admission for high school students (see Early Admission Freshmen).
5. Open University (O.U.) courses by television. Credits may be earned through a combination of the above options. Students should contact their college advisor for further information concerning the application of this credit toward their degree requirements.

Non-Degree Seeking Student
Non-degree seeking student enrollment is on a space-available basis and has been established for those individuals who, while not desirous of earning a degree, would like to enroll in all levels of university courses. Teachers needing to take courses for certification purposes, high school students (with the permission of their respective guidance counselor), individuals desirous of taking courses for self-enrichment, and senior citizens are examples of those eligible to utilize this enrollment method. Former USF undergraduate degree-seeking students may only enroll as non-degree seeking students if they have completed their previous degree program and earned an equivalent degree at another institution. Should the latter be the case, an official transcript (reflecting the degree) from that institution must be sent to the USF Office of the Registrar (Attention: Student Records Area) prior to registration.

Individuals enrolling as non-degree seeking students who plan to make formal application to the University may not apply more than 14 semester hours toward an undergraduate degree. Applicants denied admission to USF as degree-seeking undergraduates may not enroll as non-degree seeking students. Performance in courses taken in this category will not qualify an applicant for admission as a degree-seeking student.

A non-degree-seeking student who has been dismissed from USF is not eligible for admission to USF as a degree-seeking student at the undergraduate level. If extenuating circumstances contributed to the academic dismissal and the student meets other admissions requirements, a request for waiver of this rule may be submitted to the Faculty Committee on Student Admissions. This rule does not apply to a student who has earned a degree from a regionally accredited institution subsequent to academic dismissal.

Non-degree-seeking students are subject to the same academic policies as undergraduate degree-seeking students. They must adhere to deadline dates published in the University Schedule of Classes. Non-degree seeking students are not eligible to receive University honors or participate in the USF/Florida Public Community College cross-registration program. Non-degree-seeking students also are not eligible to live in University housing nor to receive financial aid. Non-degree seeking students are subject to the academic probation and dismissal policy listed in this catalog. Non-degree seeking students who are academically dismissed from the University may appeal to the Academic Regulations Committee (ARC) through the ARC representative for Academic Support and Achievement/Center for Academic Advising to return. Potential non-degree seeking students should also refer to the section of the catalog of the college(s) offering the
course(s) of interest to them to determine whether any special college requirements exist which must be met prior to enrolling.

NOTE: Prior to registration for classes which meet on campus, all students less than 40 years of age must submit acceptable proof of immunity to rubella to the Student Health Service. Students born after December 31, 1956 must also submit proof of immunity to measles. (See Immunization Policy.)

*Senior Citizen Tuition Waiver

Florida residents who are 60 years of age or older by the first day of a respective semester/term may enroll in certain undergraduate or graduate courses, on a space-available basis, without paying tuition. Academic credit is not awarded, examinations are not required, and grades are not given.

An orientation-registration session is held at the beginning of each semester for the Senior Citizen Tuition Waiver program. Information, registration forms, and advising for senior citizens are available at these sessions or by contacting the Division of Senior Programs for further details.

* See Florida residency requirements in this catalog.

Dual Enrollment (Public/Private High/Home School)

Dual enrollment in USF classes is open to academically qualified students currently enrolled in public/private high schools who are recommended by their guidance counselor or principal and to home school students. The University has articulation agreements with several county school boards to allow public high school students to enroll in classes at USF. Students enrolled in postsecondary instruction that is not allowed public high school students to enroll in classes at USF.

Students wishing to be accepted as Dual Enrollment students at the University of South Florida must:

1. Be at least 16 years old at start of term, unless enrolled in a special summer program initiated by USF or a special course section involving only dual enrollment students;
2. Have proof of a minimum of 420 on SAT I V (Verbal) and 440 on SAT I Q (Quantitative); or a score of 16 on EACT English and EACT Reading and a score of 18 on EACT Mathematics; or appropriate placement test scores; and a TOEFL score, if applicable;
3. Have (a) completed the equivalent of the sophomore year, (b) achieved a grade point average of 3.0 or higher on a 4.0 scale (as calculated by USF), and (c) satisfied any course prerequisites;
4. Provide a list of courses and the number of credits necessary to complete high school diploma from the school counselor or principal on school stationery;

Please contact the Office of the Dean of Undergraduate Studies (SVC 2002, 4202 E. Fowler Avenue, Tampa, FL 33620-6920) for complete information and student qualifications.

NOTE: Prior to registration for classes which meet on campus, all students less than 40 years of age must submit acceptable proof of immunity to rubella to the Student Health Service. Students born after December 31, 1956 must also submit proof of immunity to measles. (See Immunization Policy.)

Readmission (Former Students Returning)

A former student returning (FSR) is any degree-seeking undergraduate student who has not earned his/her degree, who has not been enrolled at USF in any of the last three terms, and who wishes to re-enroll in the University. Former students returning must be readmitted to the University. In order to be considered for readmission, a former student should file a new Application for Admission with the Office of Admissions by the deadline indicated in the Academic Calendar for the term of requested re-entry. A new application fee is not required. (Former College of Education majors must contact the College of Education Advising Office for additional readmission requirements.)

To be readmitted, a student must meet the following requirements:

1. Be eligible to return to the University of South Florida;
2. Be in good standing and eligible to return to the last institution attended as a degree-seeking student; and
3. Have achieved a GPA of at least 2.0 as calculated by USF on a 4.0 scale on all college-level academic courses attempted at institution(s) attended since last enrolled at USF.

Students who have attended one or more institutions since their last enrollment must request official transcripts of all work attempted at the other institution(s) be sent to the USF Office of Admissions. Acceptability of transfer credits toward completion of USF degree programs will be determined by the college of the student’s major.

Prior to registering for classes, former students returning who have been readmitted are required to participate in an orientation program on the USF campus where they will take all or the majority of their courses. Former students returning will receive orientation information after readmission.

Transient students and non-degree-seeking students are not considered former students returning. These students who wish to enter as degree-seeking students must file an application with the Office of Admissions prior to the deadline listed in the Academic Calendar for the requested term of entry. Former USF students who have earned the baccalaureate degree at USF or at another institution and who now wish to return to USF to earn another undergraduate degree must file an Undergraduate Application for Admission with the Office of Admissions. No application fee is required. A student may not work on a second undergraduate degree if he/she has been accepted into a graduate program.

NOTE: Prior to registration for classes which meet on campus, all students less than 40 years of age must submit acceptable proof of immunity to rubella to the Student Health Service. Students born after December 31, 1956 must also submit proof of immunity to measles. (See Immunization Policy.)

Florida Community College System

High school graduates planning to start their college education at a Florida community college should confer with the community college counselor and ask that their academic program be planned with the assistance of the USF Undergraduate Catalog (USF’s Community College Counseling Manual has been incorporated into this catalog) which is available in all counseling offices. This catalog, prepared by the Office of Undergraduate Studies, explicitly describes the undergraduate program requirements and Florida’s common prerequisites that should be followed to ensure maximum ease of transfer into the students’ upper-level programs on a par with their native USF counterparts.

Articulation Agreement

An articulation agreement, in effect since April 13, 1971 and later adopted by the Florida Legislature in statute form as Florida law, governs an effective and orderly transfer of Florida community college students into the State University System (SUS). The agreement defines and establishes the Associate of Arts degree from a Florida public community/junior college as the basis for all articulation rights. Among these guarantees, the following are central to the transfer process:

Admission into the State University System

1. A.A. graduates will be granted admission to a university within the SUS, but not necessarily to the university or program of choice.

2. A.A. graduates will have the same opportunity to enroll in a university limited access program as the native university student.

Upon transferring to a state university, A.A. graduates will be awarded at least 60 credit hours towards the baccalaureate degree, exclusive of occupational courses and basic required physical education courses.
4. Credits that are part of the A.A. degree earned through articulated acceleration mechanisms, such as dual enrollment, International Baccalaureate, early admission, advanced placement and credit by exam, will be transferable to the state university.

5. As participants in the Statewide Course Numbering System, receiving institutions must accept all courses taken at the transfer institution if the courses at each institution have the same prefix and the same last three digits of the course number.

6. The university catalog in effect the year the A.A. degree student first enrolled at the community college will remain in effect for the student’s entire program, provided the student maintains continuous enrollment as defined in that catalog.

7. Once a student has completed the general education core and this fact is noted on the transcript, regardless of whether or not an A.A. degree is awarded, no other state university or community college to which the student may transfer can require additional courses to the general education core. Included in these transfer guarantees is the right of appeal. Students may appeal to the university and to the Statewide Articulation Coordinating Committee. Students who have questions or want more information about the articulation agreement should contact the Office of Adult and Transfer Student Services.
Florida Residency For Tuition Purposes

This notice summarizes the provisions of 240.1201 Florida Statutes, BOR Rule 6C-7.05 and University Policy/Procedure concerning Florida Residency for tuition purposes.

In determining residency classification, students fall into one of two categories. They are either independent students (students not claimed on parent’s or legal guardian’s federal income tax statement or whose parents do not provide 50% or more of their support) or dependent students (students, regardless of age, who are claimed as dependents by parent or legal guardian on federal income tax statement or whose parents provide 50% or more of their support).

The law basically requires that a U.S. citizen/permanent resident alien/independent student or a dependent student's parent/legal guardian has established and maintained a LEGAL Florida residence for at least twelve (12) months before the first day of classes of the term for which Florida residency status is sought.

USF is required to obtain documentation of 12 months’ legal residence before a student is classified as a Florida resident for tuition purposes. A student is required to request Florida residency in writing and submit supporting documents no later than the fifth day of classes in the term for which classification is sought.

The following is acceptable, nonconclusive evidence of the establishment of a legal residence in Florida. At least one such document must be dated/issued at least 12 months before the first day of classes of the term for which Florida residency is sought.
1. Proof of purchase of permanent home in Florida.
2. Declaration of Domicile.
3. Florida’s driver’s license.
4. Florida voter’s registration.
5. Florida vehicle registration.
6. Florida vehicle title.
7. Professional/occupational license in Florida.
8. Florida incorporation or other evidence of legal residence in Florida.

PLEASE NOTE: Rent receipts, leases, employment records, tax returns, school/college records are NOT evidence of establishing a legal Florida residence. Students who are dependent on out-of-state parents or who come to Florida for educational purposes are generally ineligible for reclassification to Florida status.

In rare cases, the law allows some students (e.g., military, public school teachers, etc.) who do not meet the basic requirements to be classified as Florida residents for tuition purposes. For more information about exceptional categories, contact the Admissions Office, the Office of the Registrar, or the Office of the General Counsel.

FEES

The levels of the Activity and Service Fee, the Health Fee, and the Athletic fee are determined on each campus by a student fee committee appointed by the President of the University and the Student Government President. The committee includes USF faculty and students with the majority of the committee being students. The fees may be reviewed on a yearly basis.

The following fee schedule applies to all USF students with the exception of those in the Bachelor of Independent Studies, External Degree Program. For information on the BIS Program fees see paragraph 2b below.

Registration fees are assessed in accordance with Board of Regents rules. All fees are subject to change without prior notice. The University will make every effort to advertise any such changes if they occur.
1. Initial Application Fee
   (Each application - not refundable) $20.00
2. Tuition
   Schedule/Fee Statements are no longer mailed. Tuition is due by the fifth day of each term. To find out the amount of the total tuition due (the amount will not reflect any payments made on the account), students can bring a photo ID to the Registration HelpDesk located in the Registrar's Lobby, SVC 1034, and request a Registration Confirmation which will reflect total tuition and fees.

The student is responsible for paying fees in full by the appropriate due date stated in the particular term’s "Schedule of Classes." Failure to do so may result in cancellation of the student's registration. Fees paid by mail must be postmarked by the post office, not office meter stamped, on or before the fifth day of the term. Checks are payable to USF.

To avoid a $50.00 late payment fee, all tuition fees must be paid or postmarked by the U.S. Post Office, not office metered, by the fifth day of the term. The University cannot be responsible for lost or misdirected U.S. Postal mail. A student whose registration has been cancelled may request registration reinstatement through the fourth week of of the term for the academic term. Upon approval for reinstatement, all fees and other debts owed to the University must be paid in full by cash, money order, or cashier's check before reinstatement will be affected.

a. Spring 1999 Tuition Fee Structure

   Tuition Fees are estimated only/subject to change.
   Tuition Fees are assessed by course level, not student classification.

   Campus/Course Level Resident Non-Resident*
   Tampa Campus:
   0001-4999 Undergraduate $72.75/hr $294.61/hr
   5000-Over Graduate $142.10/hr $485.66/hr
   Tampa OU & Off Campus Credit Courses:
   0001-4999 Undergraduate $57.69/hr $289.55/hr
   5000-Over Graduate $137.04/hr $480.60/hr
   St. Petersburg Campus:
   0001-4999 Undergraduate $64.51/hr $286.37/hr
   5000-Over Graduate $133.86/hr $477.42/hr
   St. Petersburg OU & Off Campus Credit Courses:
   0001-4999 Undergraduate $63.91/hr $285.77/hr
   5000-Over Graduate $133.26/hr $476.82/hr
   New College - Sarasota:
   0001-4999 Undergraduate $66.75/hr $288.61/hr
   Sarasota Campus:
   0001-4999 Undergraduate $64.63/hr $286.49/hr
   5000-Over Graduate $133.98/hr $477.54/hr
   Sarasota: OU & Off Campus Credit Courses:
   0001-4999 Undergraduate $62.93/hr $284.49/hr
   5000-Over Graduate $131.98/hr $475.54/hr
   Lakeland Campus:
   0001-4999 Undergraduate $56.53/hr $281.61/hr
   5000-Over Graduate $121.34/hr $472.66/hr
   Lakeland: OU & Off Campus Credit Courses:
   0001-4999 Undergraduate $59.75/hr $281.61/hr
   5000-Over Graduate $129.10/hr $472.66/hr

*See “Resident Status,” above

NOTE:
(1) There is no ceiling (maximum) on the amount which a student may be assessed for a single term.
(2) A lab fee of $8.00 to $15.00 is charged on certain courses. Please consult your class schedule to locate the courses that require the fee and the amount of fee that applies to the course.
(3) Students who only register for a co-op assignment must pay a minimum of one (1) hour at the level of the co-op assignment.
(4) Cashier's Office Hours - Regular Registration - See regular registration dates and times in "Schedule of
Classes.* Regular Cashier’s Office hours are Monday, Thursday, Friday from 9:00am - 5:00pm and Tuesday, Wednesday from 10:00am - 6:00pm.

(5) Tuition fee payment should be mailed to:
Tuition/Purchasing and Financial Services
University of South Florida
4202 E. Fowler Avenue
Tampa, Florida 33620-5800

b. Estimated Bachelor of Independent Studies Fees

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<td>Independent Study</td>
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<tr>
<td>Seminar</td>
<td>1091.25</td>
<td>4,419.15</td>
</tr>
<tr>
<td>3rd Study Area</td>
<td>1091.25</td>
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<tr>
<td>Independent Study</td>
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<tr>
<td>Seminar</td>
<td>1091.25</td>
<td>4,419.15</td>
</tr>
<tr>
<td>4th or Inter-area Study</td>
<td>2182.50</td>
<td>8,838.30</td>
</tr>
<tr>
<td>Total*</td>
<td>$8,730.00</td>
<td>$35,353.20</td>
</tr>
</tbody>
</table>

*Fees do not include books, on-campus seminars, housing or food service and may change without notice.

d. Off-Campus College of Education Courses

Students enrolling for off-campus (Continuing Education) courses will be assessed fees according to the fee structure “a” above. Continuing Education courses are designated by the “700 series” section number. The “Schedule of Classes,” which is printed each semester, should be used as a reference for updated information.

3. Late Registration Fee

All students who initiate (i.e., those students who have not enrolled for any courses during early or regular registration) their registration during the late registration period will be automatically assessed a $100.00 late registration fee.

4. Financial Aid Disbursement

Upon satisfaction of eligibility criteria, financial aid awards will be credited to student accounts. Monies in excess of charges will be mailed to students’ local addresses.

5. Cancellation for Non-Payment of Fees

Students not on an authorized deferred payment of fees and who have not paid their tuition fees in full by a specified day (per “Schedule of Classes”) will have their registration for that cancelled. This means, specifically, that a student will receive no credit for any courses taken during that term.

6. Intern Certificate of Participation

Individuals who have supervised interns may register for courses during a term by presenting their intern Certificate of Participation.

Prior to July 1, 1997, the Intern Participation Certificate stated that all fees were waived with the exception of the Bond and Trust Fee which was $4.76 per credit hour. Certificates were valid for five years from the date of issuance.

The new Intern Participation Certificate effective July 1, 1997 states that certificate holders are entitled to a waiver of only matriculation fees for a maximum of six (6) credit hours instruction during a single term. Certificates are valid for three years from the date of issuance.

Fees must be paid or postmarked by the U.S. Post Office (not office marked) by the fifth day of the term. The University cannot be responsible for lost or misdirected U.S. Postal mail.

7. State/Employee Waivers

Eligible USF and other State agency employees interested in enrolling for free university courses should obtain a State Fee Waiver Form from their respective Human Resources offices and complete it prior to registering. USF employees may obtain the State Fee Waiver Form from the designated fee waiver approval authority within each college/division, or from Human Resources, SVC 2172. The fee waiver is offered on a SPACE AVAILABLE BASIS ONLY and up to six credit hours per term. Fee Waivers for eligible USF employees can be approved by each college/division fee waiver approving authority, and do not have to be brought to Human Resources for approval. State employees using a fee waiver must register during the designated dates for each term (see current Schedule of Classes). If an employee registers prior to the designated dates, he/she will be responsible for payment of fees.

Courses exempt from the fee waiver include (but are not limited to): thesis, dissertation, directed individual study/research, internship, practicum, one-to-one music/theatre performance, cooperative education, Program for Adult Credit Education (PACE), Lifelong Learning, Continuing Education, correspondence, Distance and Technology Mediated Learning, and any other non-credit or one-to-one instruction courses.

The original completed/approved fee waiver should be brought to the Cashier’s Office, ADM 131, by the fifth day of each term in order to avoid a late payment fee. All hours in excess of six must be paid for at the regular rate by the fee payment deadline. Employees should contact the Registrar/Admission’s Office to ensure compliance with admissions, enrollment, and Florida residency requirements.

Notice to Individuals Utilizing State Employee Fee Waivers:

Based on the Internal Revenue Code (IRC), Section 127, the utilization of the State employee fee waiver is a taxable benefit to employees. Employees enrolled in graduate level courses earn taxable income equal to the tuition waived on graduate level courses. The value of all graduate level courses waived by an employee fee waiver that have not been dropped by the last day of the drop/add period will be included in an individual’s taxable wages. Therefore, make sure to drop all graduate level classes that you do not anticipate completing by the last day of the drop/add period! This taxable income is subject to both Federal income tax and Social Security and Medicare taxes (FICA). Therefore, it is important for employees utilizing State fee waivers to ensure that their correct residency is reflected on the Registrar’s system so that fees will be properly assessed and subsequently taxed.

Under IRC Section 117 (d), tuition waivers given to employees of universities in the Florida State University System for education below the graduate level are excludable from their income without dollar limit. Graduate students employed as teaching and research assistants are also entitled to the income exclusion for tuition waived.

The taxable value of tuition waived will be reported to the State Comptroller’s Office, Bureau of State Payrolls, each semester by the Division of Finance and Accounting. Due to system limitations, the Bureau of State Payroll is only able to withhold FICA tax from individuals' pay. Individuals who anticipate a tax liability from the taxable benefit received from the graduate level fee waiver can adjust their W-4 form to withhold FICA tax from individuals' pay. Individuals who anticipate a tax liability from the taxable benefit received from the graduate level fee waiver can adjust their W-4 form to withhold FICA tax from individuals' pay.

Fees must be paid or postmarked by the U.S. Post Office (not office marked) by the fifth day of the term. The University cannot be responsible for lost or misdirected U.S. Postal mail.

8. Tuition Deferral for VA Students

Students receiving VA benefits who have applied in writing no later than the date specified in the “Schedule of Classes” for the deferment in Veterans Services have until...
9. **Florida Prepaid College Program**
   Students who are eligible to receive benefits under this plan are responsible for the local portion of fees. These fees are $18.66 per credit hour, including applicable lab fees. This fee must be paid or postmarked by the fifth day of the term to avoid being cancelled or charged the $50.00 Late Payment Fee.

10. **Mailed Payments**
    To avoid cancellation of registration or a $50.00 Late Payment Fee, all fee payments must be postmarked, by the post office not office metered, by the applicable fee payment deadline listed in the Academic Calendar.

11. **Returned Registration Checks**
    A student's current registration is subject to cancellation if the check presented in payment of those fees is returned to the University unpaid. Dishonored fee payment checks must be redeemed within 10 calendar days to avoid cancellation of a student's current registration. A $50.00 Late Payment Fee and a $15.00 administrative charge will be assessed on any registration check returned unpaid to the University.

12. **1999/2000 Room Rent for Double and Single Occupancy**
    Room rent is paid in accordance with information in the Student Housing Contract. Double Occupancy
    Fall/Spring | Spring Only
    --- | ---
    Alpha | $2,884 | $1,442
    Andros | $2,406 | $1,203
    Beta/Gamma | $2,312 | $1,156
    Village | $2,614 | $1,307

    Single Occupancy
    Fall/Spring | Spring Only
    --- | ---
    Alpha | $3,812 | $1,906
    Andros | $3,480 | $1,740
    Beta/Gamma | $3,344 | $1,672
    Village | $3,816 | $1,908

13. **Meal Plans 1999-2000**
    Meal Plan Selections for New Residents
    (All students who have not lived in the residence halls prior to the 1998-99 academic year are required to purchase a meal plan and must select from the following eight choices.)
    - Carte Blanche Plan + $100 Flex: $1,295.00
    - Carte Blanche Plan: $1,195.00
    - 14 Meal Plan + $250 Flex: $1,170.00
    - 14 Meal Plan + $150 Flex: $1,095.00
    - 14 Meal Plan: $995.00
    - 150 Meal Plan + $125 Flex: $995.00
    - 10 Meal Plan + $80 Flex: $995.00
    - 10 Meal Plan: $915.00

    Meal Plan Selections for Returning Residents
    (Returning residents may select from the five options below or any of the above eight options.)
    - 8 Meal Plan + $350 Flex: $1,095.00
    - 8 Meal Plan + $250 Flex: $1,010.00
    - 8 Meal Plan + $100 Flex: $870.00
    - 100 Meal Plan + $100 Flex: $770.00
    - $915.00 All Flex: $915.00

    To find out about these or to sign up simply stop by the Dining Services office located in the Argos Center or call (800) 775-5325. In Tampa, call (813) 974-4385.
    *Rates subject to change
    **Please add sales tax

**Refund of Registration Fee Payment Release of Registration Fee Liability**

The following refunds, less deductions for unpaid debts to the University, are authorized. A Refund Request form must be completed and presented to Cash Collections, ADM Rm 106, in the Division of Purchasing and Financial Services to initiate the refund process. A two-week waiting period is observed for each refund to be sure checks have cleared.

a. 100% of registration fees and tuition will be refunded if notice of withdrawal from the University is approved prior to the end of drop/add period and written documentation is received from the student.

b. 25% of registration fees and tuition paid less building and capital improvement fees, will be refunded if notice of withdrawal from all courses from the University is approved prior to the end of the fourth week of classes (summer term is prior to the end of the third week of classes) and written documentation is received from the student.

**Fee Adjustment Request After Fifth Day of the Term**

Effective January, 1989. USF approves a refund of 100% of the tuition and registration fees if a student withdraws or drops a course due to circumstances determined by the university to be exceptional and beyond the control of the student. Requests for fee adjustments must meet one of the conditions below to be considered.

a. 100% of registration fees and tuition will be refunded when a student withdraws or drops a course due to circumstances determined by the University to be exceptional and beyond the control of the student, including but not limited to:
   - (1) Illness of a student of such severity or duration, as confirmed in writing by a physician, to preclude completion of the course(s).
   - (2) Death of the student or death in the immediate family (parent, spouse, child or sibling) as confirmed by documentation indicating the student's relationship to the deceased.
   - (3) Involuntary call to active military duty.
   - (4) A situation in which the university is in error as confirmed in writing by an appropriate University official.
   - (5) Other documented exceptional circumstances beyond the control of the student which precluded completion of the course(s) as accompanied by letter of explanation and appropriate documentation.

b. Students who receive financial aid and subsequently change their enrollment status which results in a refund in accordance with this subsection, may have all or a portion of their refund returned to the University's financial aid programs in accordance with the Financial Aid Policy on Refunds and Repayments.

**Payment of Accounts Due the University**

Charges against students for loss or breakage of University equipment, books, fines and other charges are due immediately. Delinquent accounts may be considered sufficient cause for cancellation of registration. University regulations prohibit registration, or release of transcript, diploma, or grades for any student whose account with the University is delinquent. Payments should be brought into the Cashier's Office or mailed to Finance and Accounting, USF, Tampa, FL 33620 by the appropriate deadline.

**Financial Aid**

Grants, scholarships, low interest loans and federal work-study are all forms of financial aid. You apply for most financial aid by submitting the Free Application for Federal Student Aid (FAFSA). Since many programs are funded on a limited basis, it is to your advantage to apply early (Priority application dates are provided each year in the Financial Aid Guide).

Detailed descriptions of the various forms of aid, the FAFSA and application information are available from the USF Office of Financial Aid, SVC 1102. You may also call (813) 974-3730 to request information, financial aid applications, and forms. You can access FastWEB and ExSPAN nationwide scholarship searches; and USF scholarship information; e-mail your counselor and more via the Office of Financial Aid Web page. The address is http://usfweb.usf.edu/enroll/finaid/finaid.htm. You may also complete the FAFSA electronically. A link from the financial aid Web site provides either a version you can download, or a Web version. Visit the Web site for details.

If you choose "EFT" (electronic funds transfer) on your promissory note, you may receive an automatic tuition deferment, which allows a later tuition payment deadline if funds are available.
Academic Scholarships

Academic scholarships are administered by a number of different offices within the University.

1. The Office of Admissions administers a variety of different scholarships for first-time-in-college students. All first-time-in-college students interested in academic and minority scholarships should contact the Admissions Office directly.

2. The Office of Adult and Transfer Services administers a variety of different scholarships for transfer students. All transfer students interested in academic and minority scholarships should contact the Office of Adult and Transfer Services directly.

3. All financial aid applicants are automatically considered for scholarships administered through the Office of Financial Aid. If applications are complete by the priority application dates published each year in the Financial Aid Guide.

4. The individual colleges of the University (the College of Business, the College of Education, etc.) administer some scholarships directly through the Dean’s Office in each college. New students and transfer students are advised to contact the USF Admissions Office or the Office of Adult and Transfer Services first, and then the individual colleges regarding scholarship opportunities.

5. For non-Florida residents, a limited number of out-of-state tuition waivers are available based on academic performance. New students and transfer students are advised to contact the USF Admissions Office or the Office of Adult and Transfer Student Services directly.

Special Services

Department of Veterans Affairs (VA) Benefits

USF is approved for the education of veterans, eligible dependents, members of the selected reserve, and active-duty personnel who are eligible for benefits under public laws now in effect. All degree programs currently offered at USF are approved by the State Approving Agency.

Students who may be eligible for benefits are urged to contact Veterans Services for information, procedures, and forms as early as possible. To initiate, change, or renew benefits at USF, a request must be submitted through that office.

To be eligible for full-time VA benefits at USF, undergraduate students must enroll for 12 or more semester hours, and graduate students must enroll for 9 or more semester hours each normal academic term.

VA regulations require that students take only courses that are applicable to their degree program or other approved program and make satisfactory progress toward their degree. Students should contact the "Handbook for VA Students" (available at their local USF Veterans Services office) for information on various programs/services, and VA rules and regulations. Under no circumstances will the VA pay benefits to a student taking a course by audit. It is the student’s responsibility to inquire concerning all VA rules and regulations and to report any change in status which affects his/her benefits.

Additionally, VA benefits will be terminated for students who are dismissed for academic or disciplinary reasons and can only be reinstated after academic counseling.

Veterans with a service-connected disability approved for benefits under Chapter 31 may contact the Office of Student Financial Services no earlier than one week prior to the start of classes for a book and supplies voucher. Other VA benefits include additional amounts of compensation and pension, which may be payable to eligible veterans and widows or widowers of veterans for the enrollment of dependent children. The students, parents, or guardians are responsible for notifying the VA Regional Office directly of enrollment and termination of enrollment. The VA toll-free number is 1-888-442-4551.

Bicycle Permits

Bicycles for bicycles are FREE! Obtaining a bicycle permit registers the bicycle and can provide information to the police in the event of loss.

How to Get a Permit

Parking permits may be purchased at the Parking Services Building (corner of Maple and Fletcher Avenue) on the Tampa campus or the Police Department on the St. Petersburg and Sarasota campuses. (A copy of the vehicle’s registration and a valid driver’s license is required.)

Transportation

Shuttle bus service is provided FREE to USF students from 7:30AM to 9:00PM Monday through Thursday and Friday 7:30AM to 6:30PM. Routes cover the entire USF Tampa campus and also travel to University Square Mall from 11:00AM to 2:00PM.

Motorist Assistance

Flat tire? Keys locked in your car? Need to jump start your car? Call Parking Services at 974-3990, option #5. This free service is provided round the clock by Parking Services and the University Police.

Parking Tickets

Parking regulations are designed to provide safe and orderly parking. Violation of these regulations can result in parking tickets, immobilization of your vehicle, towing, or loss of parking privileges in addition to holds on student activity. Respond to parking tickets received to avoid problems.

Questions and Information

Parking and transportation information is located at http://usfweb.usf.edu/parking_services. You may also contact Tampa campus Parking Services at (813) 974-3990.
The University of South Florida (USF) is committed to the concept of total student development - intellectual, social, physical, emotional, and moral. The curricular, co-curricular, and extracurricular programs of the University are designed to achieve this end and are presented to offer USF students a wide variety of beliefs, opinions, and ideas in an atmosphere of openness where all views may be aired. The programs and activities developed and implemented by the Student Affairs staff at USF are intended to improve the quality of life at the University and to meet the University's goal of total student development. The programs of the University are presented according to the guidelines established by the Florida Board of Regents (Section 6-C, Administrative Code of Florida).

Students who attend the University of South Florida are admitted to the University under guidelines as well as policies and procedures of the University. The Office of the Vice President for Student Affairs, as well as other University officials, is charged with interpreting the policies of the Board of Regents to students, their families, and others in the University community.

Division of Student Affairs

The Division of Student Affairs is composed of the areas of Enrollment Planning and Management, Academic Support and Achievement, and Student Life and Wellness. The Division is committed to creating a student-focused learning community distinguished by shared purpose, collaboration, open and timely communication, mutual respect, trust and inclusiveness. Student Affairs will provide leadership for a diverse University community, inspire the pursuit of academic excellence through collaborative learning and foster a caring environment that encourages the personal and professional development of students and those who serve them. In partnership with University faculty and staff and the community, the staff will reach beyond individual perspectives to develop lifelong learners who are broadly educated, ethical, open to differences, capable of critical thinking, and who share responsibility for enhancing the human condition. The achievement of this vision will contribute to making the University of South Florida the university of first choice.

Student Affairs staff provide prospective and new students assistance in obtaining information about the University before they arrive on campus. The staff also offers services to the students to help them cope more effectively with the many facets of college life that can affect students' academic work: financial aid, health service, individual and/or group counseling, alcohol/drug education, career planning, placement, procedures for redressing grievances, standards for students' conduct, due process in the event of disciplinary action, and advice and/or assistance in time of difficulty. A variety of programs and services are offered by the Student Affairs staff to provide students opportunities to become involved in college life outside the classroom: orientation for new students, residence halls, student organizations and Phyllis P. Marshall Center programs and activities, student government, student publication, intramural and recreational sports, student health education/wellness programs, and events of special interest.

Division of Student Affairs Diversity Statement

The Division will develop a system that will create a learning community where each individual's primary identity as a person has worth and value. Individuals from diverse ethnic, racial, religious and social backgrounds will willingly interact frequently displaying attitudes and behaviors of respect, shared purpose, common commitment to concern, mutual cooperation and support. In this community all persons will be judged on the content of their character and all individuals will have a voice.

ACADEMIC SUPPORT AND ACHIEVEMENT

Academic Support and Achievement operates under the auspices of the Division of Student Affairs and is responsible for providing academic and personal support to students. The units within Academic Support and Achievement focus on addressing the needs of first-time-in-college students and other students who are undecided about a major or who seek admission to limited access programs. Responsibilities also include the coordination of the University Experience course for freshmen as well as the development and monitoring of support programs and strategies to enhance the academic success of target populations, including students with disabilities, student athletes, students admitted under alternative admissions criteria, and other underrepresented groups.

Center for Academic Advising

The Center for Academic Advising is dedicated to promoting the successful achievement of students' academic goals through comprehensive advising services. The Center's primary responsibility is to provide academic advising to undergraduate students, with a special emphasis on the needs of students entering a university for the first time.

The following services are provided to these undergraduate students: advisement regarding academic policies and programs, assistance in the selection of a major, administration of special programs for at risk or underprepared students, and special advisement for minority students. The staff prepares students for entrance into all limited access majors (e.g. Engineering, Business, Nursing, and Mass Communications), and evaluates and certifies all students seeking Associate of Arts certificates.

Student Disability Services

Student Disability Services exists to ensure that students with disabilities have the technical, academic, and emotional support necessary to achieve academic and personal success at the University of South Florida. Course related assistance and academic accommodations are provided to eligible students with documented disabilities. Services may include advocacy, reader services, interpreters, alternate exam administration, note takers, and adaptive equipment such as FM systems, large print computer access, and Visualtekts. Students are encouraged to contact the office as early as possible prior to enrollment to make arrangements for appropriate services.

McNair Scholars Program

The Ronald E. McNair Post-Baccalaureate Scholars Program is designed to prepare economically disadvantaged and underrepresented (Hispanic, African American and Native American) juniors and seniors for doctoral programs. Special emphasis is placed on the recruitment of students with majors in math, engineering, science, public health, communications, humanities, medical sciences and English. However, other disciplines such as education, social sciences and fine arts are considered. This program encourages graduate studies by providing opportunities for academically talented junior and senior level undergraduate students to define their career goals, engage in research, develop their personal and professional skills and participate in student/faculty mentor relationships critical to their success at the doctoral level. Graduate school application assistance is also provided, as well as GRE, GMAT and MCAT preparation. These students are awarded scholarship stipends when they participate in the Summer Research Institute and during their research internship in their senior year. Opportunities to attend and present their research at national and regional conferences are also provided. The criteria for this very competitive scholars program are as
follows: 2.8 minimum cumulative GPA, declared major, a minimum of 45 earned credit hours, current enrollment at USF at the junior or senior level, US citizenship, and a completed McNair application with faculty recommendations.

**Project Thrust**

Project Thrust is a university-wide retention program designed to assist undergraduate students, minority students, and students admitted "by exception" (pursuant to §240.233(2) Fla. Statutes). Students are assigned to the Program to achieve their baccalaureate degree at USF. Assigned to four of the undergraduate colleges, the major role of the Project Thrust advisors is to provide students with immediate and long-term assistance necessary to insure the successful completion of their college program of choice. Throughout the year, Project Thrust also provides academic advising and counseling, tutoring and test preparation workshops.

**Student Academic Support System (SASS)**

The Student Academic Support System (SASS) is the State University System computer-aided advising system which enhances undergraduate education. The report produced by this system is available to each undergraduate student through the student's advising office. SUNLINK, the System’s computerized academic record, is open to the student's academic record against the requirements of the student's degree program. The central SASS office maintains the data and trains appropriate college personnel.

**Student Support Services Program (SSS)**

Student Support Services (SSS) is a federally funded retention program designed to provide academic and personal support to alternatively admitted first generation, low income, and students with disabilities. The program serves a diverse student population and provides an opportunity for students who may not meet all admission criteria but whose high school records and test scores indicate the potential to succeed in college. SSS has a positive impact on student success. Its participants are retained and graduate at a rate similar to students regularly admitted to the University.

**Admissions**

The Office of Admissions assists prospective students with learning about the opportunities available to them at the University. The office is responsible for processing applications for admission for undergraduate and former students returning. Admissions also reviews transfer credit completed at other regionally accredited institutions for determination of transferability. The office is open Monday, Thursday and Friday 8 a.m. until 5 p.m. and Tuesday and Wednesday 8 a.m. until 6 p.m. The Office of Admissions is located in the Student Services Building (SSC) 1036, 813/974-3350. Admission services are also available at all regional campuses.

**Adult and Transfer Student Services**

The office of Adult and Transfer Student Services (ATSS) is a department created to meet the needs of adult students entering or returning to the university and students transferring from a community college or other academic institution. ATSS recruits and serves as a central source of information and referral, advising, programming, and advocacy for the non-traditional student by identifying the needs of adult learners and transfers and facilitating their entry into the University environment. In addition, the office supports the continuation of their educational goals by developing partnerships with community colleges, area employers, and community groups as well as within the USF community. ATSS also focuses on the concerns of women faculty, staff, and students through specialized programming and collaboration with other university services.

**The Career Center**

The Career Center assists students in making the transition from academic life to professional employment. Staff help students plan, refine and implement their career goals and job search plan. The Career Center also provides information on employment opportunities and creates venues for students to network and interview with local, state, national and international employers. The Career Center, located in the Student Services Building, room 2088, is open Monday - Friday from 8:00 am to 5:00 pm. The telephone number is 813-974-2171 and the web address is www.career.usf.edu.

**Part-time Student Employment**

On and off-campus, part-time employment provides students an opportunity to gain valuable work experience, develop employability skills and earn money. Part-time jobs, Federal Work-Study positions and temporary employment opportunities are received in the Center on a daily basis.

**Experiential Learning Programs**

Careerships are one semester, paid work experiences that allow students the opportunity to explore and/or affirm career
choices while gaining career-related skills, knowledge and experience in an on-site work setting. Careerships may be on or off campus. Since Careerships are not linked to the academic calendar, they may begin at any time during the year.

Internships are one-semester, for-credit learning experiences which implement educational goals in an alternative learning environment. Credit, approved and granted by the academic department, is not given for working pre se but for attaining learning objectives and competencies, which are evaluated by the faculty member. Internships may or may not be paid. The Career Center, in partnership with the sponsoring academic department, assists students in identifying and connecting with employers offering internships.

Cooperative Education is a paid training experience which integrates practical work experience with a student’s academic program. Students may choose an Alternating or Parallel work plan. The Alternating Plan, which requires a commitment of two semesters, permits students to alternate full-time semester of study with full-time semester of work. The Parallel Plan, which requires a commitment of four semesters, permits students to take classes and work. Participation requires a minimum GPA of 2.5 and completion of 45 credit hours, prior to the first co-op training.

Full-time Professional Employment

Experienced career specialists assist students in planning and implementing a customized job search campaign for professional, full-time employment.

Individual Career Consultations/Advising

Individual appointments may be scheduled for assistance with resume/cover letter preparation and critiques; interview strategies; skills identification, self-directed job search techniques; networking tips and strategies for tapping into the hidden job market.

Career Development & Job Search Workshops

Workshops, on such topics as resume writing, skills identification, interview techniques, job search strategies, skills identification and participation in on-campus interviews, are conducted by the staff each semester.

On-Campus Interviews

Each semester local, state and national recruiters, from business, industry, health care, finance, entertainment, government, education and non-profit organizations visit the campus to interview students for Careerships, Internships, Cooperative Education and Full-time professional employment. Since 1995, more than 11,000 candidate resumes are electronically transferred to employers each year.

Candidate Resume Referral

Throughout the year employers, who choose not to conduct on-campus interviews contact the Career Center to request resumes of students in the Center’s Electronic Resume database. Approximately 11,000 candidate resumes are electronically transferred to employers each year.

Career Networking/Job Fairs

Each semester, employers participate in various Career Networking/Job Fairs. These events provide a common ground for the student and employer to network and discuss employment opportunities.

Computerized JobLine

Each year thousands of Part-time jobs, Careerships, Internships, Cooperative Education and Full-time Professional employment vacancies are advertised on the Career Center’s JobLine. Students may access the JobLine, via the Center’s homepage.

Career & Employer Reference Library

The Career & Employer Reference Library maintains current employer information in print, video, CD and computerized form. Videos, printed and computerized reference materials are also available on resume writing, job search strategies, interview techniques and the labor market.

Financial Aid

USF makes every effort to ensure that every qualified student has access to an education. Many student financial aid programs are administered or coordinated through the USF Office of Financial Aid.

The Office of Financial Aid provides assistance to students by offering a variety of services including literature specific to the application process, program specific brochures, a Web site, a voice response telephone system that allows a student to access his or her own financial aid file, and assigned counselors based on the last four digits of students’ social security numbers. Counselors and advisors are available by telephone, by appointment, and students may also e-mail counselors via the Web site (http://usfweb.usf.edu/enroll/financialaid/financialaid.htm). General questions may be directed to the office-wide e-mail address - financialaid@admin.usf.edu.

FastWeb and ExPAN, nationwide scholarship searches, are available via the Web site (in addition to scholarship information specific to USF). Students may also complete their Free Application for Federal Student Aid (FAFSA) electronically. A link from the Financial Aid Web site provides either a version students can download, or a Web version. Students may also complete the FAFSA in the Office of Financial Aid lobby during regular business hours.

Both OASIS (On-line Access Student Information System) Web and OASIS VR allow students the opportunity to view and hear their awards for each semester, to see if their financial aid files are complete, to see what additional documents are required and more. A link to OASIS Web is available on our Web site.

The Office of Financial Aid is located in the Student Services Building (SVC) 1102, 813/974-4700. Financial aid services are also provided on all regional campuses.

Orientation

Orientation provides an introduction to both academic and student life aspects of USF. To facilitate the smooth transition of students into the academic environment of the University, academic advising and registration are major components of the program. In addition, Orientation provides opportunities for entering students to develop realistic academic and personal goals, to locate student support programs and resources, and to meet faculty, staff and continuing students. Orientation is required for all new students and former students who were readmitted to the University.

In an effort to aid new students in their transition to USF, the office provides information tents during the first week of classes, Welcome Week activities, and daily campus tours. The Orientation Office is located in the Student Services Building (SVC) 1037. Call (813) 974-3060 for more information. Orientation programs are available on all regional campuses.

Office of the Registrar

The Registrar’s Office provides a wealth of student, academic, and administrative services. The Registrar’s Office is responsible for maintaining the student’s academic record from the time of admission to degree. Therefore, virtually every USF student is a consumer of services provided by the Registrar’s Office.

Registrar’s staff publish and distribute the University Schedule of Classes, coordinate registration and drop/add activities, process and distribute grade information each semester, prepare transcripts and diplomas, as well as certify student enrollment status. Registrar’s staff also review and act upon student requests for reclassification of residency and process changes of name and student I.D. number.
The Registrar’s Office also makes available forms and is a repository of information. The Registrar’s Office provides forms and makes known the policies and procedures to petition the Academic Regulations Committee (ARC), to request fee adjustments, late registration fee waivers, or posting of a grade forgiveness. A form is also available to request privacy. The Registrar’s Office provides information and services to students via OASIS, the University’s Online Access Student Information System. On-line technology services are also available over the telephone and on the Web. Using their self-declared personal identification number (PIN), students can register and drop/add, access registration appointment and hold information, view their grades, as well as update their permanent and local addresses. Students can also browse the University Schedule of Classes. Information and services are continually being added for students.

Although technology is being used as an enabler to provide better service, Registrar’s staff provide in-person information and services in its lobby area as well as over the telephone. The Registrar’s Office is located on the Tampa Campus in the Student Services Building (SVC) 1034. (813)974-2000. Records and Registration offices are also located on every regional campus.

**STUDENT LIFE AND WELLNESS**

Student Life and Wellness is a subdivision of the Division of Student Affairs. This subdivision is committed to promoting a diverse community characterized by collaboration, open communication, and values that affirm the worth of individuals. Through shared purpose, critical thinking, and life-long learning, the staff will create a wellness-enhancing environment conducive to student development and academic achievement. The staff will strive to provide leadership that develops caring citizens who value individual differences, the pursuit of excellence and shared responsibility for enhancing the human condition.

The subdivision of Student Life and Wellness consists of the following Departments:

- Residence Services
- Student Health Services
- Counseling Center for Human Development
- Phyllis P. Marshall Center
- Campus Recreation
- Student Publications
- Student Activities
- Student Government
- Student Judicial Services
- Student Relations

**Counseling Center for Human Development**

The Counseling Center is a comprehensive, student-oriented facility providing services in educational skill enhancement, career development, and mental health to the USF community. The Center offers individual treatment on a time-limited basis and makes referrals to in-house therapy groups or to community settings for appropriate management of problems requiring longer-term care. All services preserve the confidentiality of students. For more information about any of the following services, call 974-2831, stop by SVC (Student Services) 2124, or visit our web page (http://usfweb.usf.edu/counsel). Office hours are from 8:00 a.m. to 5:00 p.m., Monday through Friday (except University holidays).

**The Career Counseling Service** is designed to assist students in choosing a major and an appropriate career goal. Major emphasis is given to the development of realistic educational and career goals through greater self understanding, reality-based decision-making, and effective problem-solving. Services include intake evaluation; assessment of abilities, interests, and other relevant characteristics; individual and group counseling; informational services; and consultation. In addition, SIGI PLUS, FOCUS, and CAREER FINDER, computerized career information and guidance support systems, are available to assist students in the process of self-assessment and career exploration. A Career Information Library containing current occupational resources is available for student use.

**The Personal Counseling Service** is designed to enhance the personal and career development of university students. Professional counselors assist the student to develop a clear sense of identity, establish autonomy, discover strengths and potential, and become a more insightful, self-directing person. Services, aimed at early detection of potential mental health problems, are as follows: Intake evaluation and disposition, crisis intervention, psychological assessment, time-limited individual psychotherapy, couples therapy, personal growth groups, and both time-limited and ongoing psychotherapy groups. Adjunctive services include psychiatric consultation, anxiety management, and skill-enhancement workshops.

**The Reading and Learning Program** provides coursework, workshops, and individual instruction in the learning strategies and reading skills necessary for academic success. The program also offers credit-bearing courses–Advanced Reading (3 credits) and Learning Strategies within Academic Disciplines (2 credits). Workshops are offered each semester for study skills and for the individual sections of the CLAST. CLAST groups are also offered for students seeking remediation in the different areas of CLAST. Additionally, diagnostic services and individual instruction are available to assist individuals in reading comprehension and study skills.

**Testing and Assessment Services** enhance the effectiveness of counseling by providing objective information about students. Tests of abilities, aptitudes, career interests, personality, reading comprehension, study skills, and other complex psychological attributes are available. Additionally, the Learning Disabilities Testing Program receives referrals from the Office of Disabled Student Services and identifies students with specific learning disabilities.

**The Outreach Program** aims at understanding the needs of the University community and developing programs to meet those needs. Structured groups, workshops and presentations are provided for students and staff as methods of primary prevention and education. Through a monthly newsletter, student publications, posters, advertisements, and presentations to student organizations and other groups, Center staff provide information about a wide range of mental health, psychosocial and educational issues that concern students. Specialized programs for Alcohol and Substance Abuse (CASA) and Vocational Rehabilitation Services. CASA focuses on research, prevention, and treatment with regard to alcohol and other drug use/abuse. Vocational Rehabilitation services are available for qualifying students and include vocational evaluation, vocational and personal counseling and guidance, coordination of services, training assistance, provision of books and supplies, and treatment.

**Veterans Services** provides specialized services and programs to veterans, eligible dependents, active duty personnel, and members of the Selected Reserve. The staff assists students with their use of Department of Veterans Affairs (VA) Educational Benefits, and serve as information and referral resources. Veterans Services was established to act as a liaison, whenever possible, between the VA students and the VA or various USF offices in order to help resolve problems. Veterans Services is the point where students submit all paperwork concerning VA Educational Benefits. Programs to help students financially include VA Work-Study Program, VA Deferred Credit Program, G.I. Tuition Assistance, and VA Vocational Rehabilitation. Office Hours: 8:00 a.m. to 5:00 p.m., Monday through Friday (except University holidays). Under special circumstances, it is possible to call to arrange for an after-hours appointment. For further information, contact the staff in SVC 2127, call 974-2291, or visit our web page (http://usfweb.usf.edu/vetserv).
Student Health Services

Student Health Services (SHS) at USF is provided as an integral part of the students academic life and furnishes health services specifically designed to meet the needs of the students and the community in which the students will be residing and studying. Having SHS available is essential because adding several thousand young adults into a community health care system can overload the local system and result in inadequate care for the students involved. Here at USF we provide a professional staff that understands the imperatives students face and can work within those. The academic calendars, the sense of urgency, the sense of immortality, for example, can make the encounters with our patients into valuable educational opportunities instead of simply visits to treat the perceived symptoms. It is our belief that college health is about treating the ailment and at the same time assessing and intervening with that student’s behavioral and medical health risks. It is about preventing illness in students who never visit our health center. It is about instilling healthy lifestyles in all students on campus. Our service is about our relationship and links to the many academic and university departments that may serve this student. In addition, college health is about teaching this model of care to the health care community and studying our services and care in an academic model.

Our staff has a public health sensitivity that can see the issues of living in residence halls, eating in dining halls, worrying about all the extracurricular activities and the possibility of future employment. The student faces difficulties when relating to faculty, exposing themselves to risks, and doing all without very many significant adults in their lives to provide a foundation on which they can build that health style they will have to rely on for the rest of their lives. We add an educational component which helps to carry the message beyond the clinic and into life.

We have the belief and the driving passion that college health encompasses the ability to assess a student's physical, emotional, and social health in the context of their cultural and academic influences. This service encompasses and interacts within the campus community, and includes the best of health promotion and prevention. In addition, this care must be provided within a multidisciplinary team that includes medical, nursing, counseling, health promotion, and ancillary services staff.

The SHS staff is comprised of licensed general practice M.D.’s, registered nurses, an advanced registered nurse practitioner, a board certified physician’s assistant, licensed practicing nurses and assistants, licensed laboratory technologists, certified health educators, a registered dietitian, and administrative personnel.

Location and Hours

SHS is located east of the USF Bookstore and north of the Student Services Union. Hours are Monday through Friday 8:00 a.m. to 5:30 p.m. (hours may vary on holidays and semester breaks). SHS is closed on weekends.

After Hours Consultation

An SHS physician is available by telephone after hours to provide medical advice and direction for currently enrolled USF students. The on-call physician may be contacted at the SHS telephone number, 974-2331.

Emergency Services

SHS does not provide ambulance services. If students require emergency services or immediate medical attention after hours, two nearby facilities are the University Community Hospital (971-6000) on Fletcher Avenue (north of campus) and the Doctor’s walk-in Clinic (977-2777) on Bruce B. Downs Boulevard (west of campus).

Eligibility and Fees

SHS provides services to any health fee paying registered student with a valid student ID card. USF Tampa Campus students are assessed a health fee that is included in their tuition each semester. Students registered on campuses other than Tampa may pay a voluntary health fee. Students taking a semester off may elect to pay a health fee at SHS entitlement them to the same benefits as any student who is currently registered.

The Health Fee entitles students to:

- Unlimited visits to the ambulatory clinic
- Access to SHS specialty clinics at a reduced cost (Gynecology, Dermatology)
- Reduced cost for laboratory tests
- Reduced cost for prescriptions
- Limited visits to the Counseling Center at no charge
- Unlimited access to all health education programs at no charge (some specialty services will have a minimal copayment)
- Antigen injections (If you require allergy shots, SHS can store and administer your injections. Complete written instructions must be submitted by the prescribing physician for antigen therapy to be approved by SHS’s medical director.)

Prescriptions

SHS does not operate a pharmacy; the physicians dispense the most frequently prescribed medications at the time of the visit. If the medication prescribed is not available in the inventory, a prescription will be written which can be filled at any local pharmacy.

Health Insurance

You should not wait until you are ill to visit Student Health Services. For Student Health Services to provide optimal service to students, it is important that they have adequate health insurance. The Student Insurance Office (SIO) with the assistance of the Insurance Committee has contracted a reliable health insurance company to provide our students with an affordable student health insurance plan for sickness and accidental injury tailored to the particular needs of college students. The SIO is there to assist you in understanding the student health insurance plan and encourages all registered students who do not have health insurance to enroll. Remember to visit the Student Insurance Office in Room 103 at the Student Health Services to remove your worries regarding health insurance and assist you in your pursuit of a successful academic career.

Health Education Programs

Student Health Services Health Education Department staffed by Certified Health Educators, a Licensed Registered Dietitian, and other support personnel provides services to assist students in obtaining a high level of health and well being. Staff is available for student consultations on an individual or group basis. Programs can be tailored to fit the special needs of your group or organization.

Mandatory Medical Requirements for Registration

Medical History Form:

A Mandatory Medical History Form is required for all students (regardless of age).

According to Florida Administrative Code Rule 6C-6.001(4) “Each student accepted for admission shall, prior to registration, submit on a form, provided by the institution, a medical history signed by the student.”

New admits will be provided a Medical History/Immunization Form with their admissions letter. In order to register, this form must be completed, signed, and returned to:
SUS Immunization Policy and requirements for registration:

As a prerequisite to matriculation or registration, the State University System of Florida shall require all students born after 1956 to present documented proof of immunity to RUBEOLA (measles). All students less than 40 years of age shall present documented proof of immunity to RUBELLA. Consistent with Department of Health and Rehabilitative Services guidelines, acceptable proof of immunity is as follows:

(RUBEOLA) MEASLES: Students can be considered immune to measles only if they have documentation of at least one of the following:
1. Documentation of immunization with two (2) doses of live measles virus vaccine on or after the first birthday. Persons vaccinated with killed or an unknown vaccine prior to 1968 must be revaccinated. Persons born before 1957 may be considered to have had a natural infection and, therefore, do not need measles vaccine.
2. Laboratory serologic [IgG] evidence of measles immunity.

If the student has no documentation of any doses of measles vaccine, vaccine should be given at the time of entry and the second dose no less than thirty (30) days, and no more than three (3) months later. It is recommended that both doses of measles vaccine be given as a combined measles-mumps-rubella (MMR) vaccine.

The documented date of immunization for both measles and rubella should indicate the day, month, and year. However, only month and year will suffice if the month and year indicate that the immunization was given at least 13 months after the month of birth.

Exceptions to this policy may be granted in the event of valid medical contraindications, or for religious reasons.

PLEASE NOTE: ALL FEMALES SHOULD BE AWARE THAT THEY SHOULD NOT BE INFANTILIZED IF THERE IS ANY POSSIBLITY OF PREGNANCY. Temporary Medical exemptions must be submitted by the attending physician and must include reason for exemption and duration of exemption.

For religious exemption applications, contact Student Health Services.

VACCINATIONS AND BLOOD TITERS ARE AVAILABLE AT STUDENT HEALTH SERVICES.

For off-campus term exemptions, contact Registrar 974-2000.

USF Student Health Services, 4202 East Fowler Avenue, SHS 100 Tampa FL 33620-6750, (813) 974-2331, FAX (813) 974-5888.

SUS Health Insurance Requirement for International Students

The Board of Regents of the State University System in Florida requires that all international students have medical insurance in order to register for classes at USF. The Florida State University System’s International Student Health Insurance Requirement is as follows:

As of Fall, 1992, no foreign student in F-1, F-2, J-1, or J-2 non-immigrant status shall be permitted to register, or to continue enrollment without demonstrating that (s)he has adequate medical coverage for illness or accidental injury. An appropriate health insurance policy must have the following elements present:

1. 52 weeks continuous coverage
2. Basic benefits: room, board, hospital services, physician fees, surgeon fees, ambulance, out-patient services and out-patient fees paid at 80%– of usual, customary, and reasonable (UCR) charge after deductible is met.
3. In-patient mental health care: 50% of UCR charges with a thirty (30) day cap.
4. Out-patient mental health care: 50% of UCR charges with a $100.00 cap.
5. Maternity benefits: treated as any other medical condition.
6. In-patient/Out-patient prescription medication
7. Repatriation: $7,500.00 coverage to return remains to the home country in the event of death.
8. Medical evacuation: $10,000.00 coverage to permit patient to be returned to home country for medical treatment.
9. Exclusion period for preexisting conditions: six months.
10. Deductible: $50.00 per illness/accident if treatment is given at USF Student Health Services; $100.00 per illness/accident if treatment is given elsewhere.
11. Aggregate cap: $200,000.00 per illness/accident.

Students must show proof of appropriate health insurance coverage before registration. An insurance policy is available at Student Health Services which is recommended by the ISSS at USF.

Exchange visitors, such as visiting research scholars must follow Federal Regulations regarding their insurance. These regulations implementing the Mutual Educational and Cultural Exchange Act of 1961 as amended by Public Law 87-256 require that all exchange visitors in J-1 non-immigration status and their dependents in J-2 non-immigration status must also demonstrate the possession of adequate medical insurance for illness or accidental injury.

Residence Hall Living

The Residence Hall program is an integral part of the total educational experience offered to USF students. Professional and Graduate staff members and Resident Assistants strive to serve our mission to provide students with intellectual and social experiences in a conveniently located residence hall community supported by a concerned and informed staff...to promote a safe, secure, and healthy living-learning environment where individual differences are appreciated and respected.

Whether considering the convenient location, the availability of resources and amenities, or the student-oriented personnel associated with the Residence Hall program at USF, campus living has a lot to offer! Every enrolled degree-seeking student is eligible to live on-campus. Housing information, including a Student housing Contract, is sent to all accepted students on a monthly basis. Students are encouraged to submit their Student Housing Contract immediately upon receipt to ensure that housing preferences can be accommodated better. Florida Prepaid College Program participants with a Prepaid Dormitory Contract should note the Prepaid Dormitory Contract number in the space allotted on the Student Housing Contract.

On-Campus Housing Facilities

Student housing facilities on the Tampa campus are clustered in three centers of community activity - the Argos, Andros, and Village Complexes. Each area provides a core of services for its residents including a central service desk, mail delivery, laundry facilities, snack facilities, and swimming pool. Although the complexes provide the same basic services, they represent distinctly different options in campus living.

In the Argos Complex, Beta and Gamma Halls offer traditional student residential living. Gamma houses women, and Beta houses men. The traditional living arrangement in these halls provides room accommodations designed for both sleeping and studying. 40-50 residents of a double occupancy living.
facilities, kitchens, community rooms, and snack machines. Alpha Apartments house 3-5 students per apartment in single or double occupancy rooms. Sophomores, juniors, seniors and graduate students are eligible to live in Alpha Apartments.

The Andros Complex consists of nine smaller halls with suite arrangements. Delta, Iota, and Epsilon Halls are co-ed and double occupancy. Delta and Epsilon are the designated halls for the Residential Learning Community. In addition, Epsilon Hall houses honors students and International/Exchange program students. Zeta and Eta Halls are all female and double occupancy. Eta Hall houses residential programs for Women's Studies students as well as women with interests in science and math. Theta, Lambda, and Mu Halls are co-ed and single occupancy. Theta is designated as the Leadership House, a program for students interested in leadership development. Kappa Hall is all female and single occupancy. Each suite in Delta, Epsilon, Zeta, and Eta accommodates two students per room, four students per study area, and four students per bathroom, which includes two sinks, two showers, and toilets. Each suite in Iota accommodates two students per room, four students per study area, and eight students per bathroom, which includes two sinks, one shower, and two toilets. Each suite in Theta, Kappa, Lambda, and Mu accommodates one student per room, two students per study area, and four students per bathroom, which includes two sinks, one shower, and two toilets. Each Andros Complex living unit (20-41 students) shares a kitchen/lounge and small laundry room. The housekeeping staff cleans study areas and bathrooms.

The Village Complex consists of 30 individual one story buildings, each containing 10 efficiency apartments. Both single and double occupancy apartments are available. These facilities are reserved for students who have attained sophomores, junior, senior, or graduate class standing or have reached 21 years of age. Each fully carpeted apartment has its own private entry and is furnished with a bed, desk, wardrobe, and bookcase for each resident. A refrigerator, cooking facilities, bathroom facilities, and individually controlled apartment heating and air-conditioning units are also provided. Within the Village Complex, the residents have access to a swimming pool, snack machines, recreation room, multi-purpose/study room, laundromat, and a wooded picnic/barbecue area.

All student housing is air-conditioned. All rooms are carpeted, and all rooms are furnished with a bed, desk, chair, dresser, closet, and bookshelf for each resident. All rooms provide basic telephone service and cable TV with a movie channel. Food service facilities are conveniently located in the Argos and Andros Complexes. Nearby swimming pools as well as basketball, tennis and racquetball courts, await students seeking leisure-time recreation. In addition, students have access to Residence Services Computer Labs and the opportunity to become involved in planning activities for their hall by joining Residence Hall organizations such as RHA.

For more information, contact the Residence Services Assignment Office at (813) 974-4310. The Residence Services Assignment Office is open Monday through Thursday from 9:00 a.m. to 5:00 p.m. and on Fridays from 10 a.m. to 4 p.m.

Off-Campus Housing

The Off Campus Housing Office, located in the Marshall Center, maintains lists of university-area apartments, homes, condos, and other rental properties available to the public. In addition, the agency accepts roommate and rental property listings from private individuals who do not discriminate because of race, color, or national origin. The office is open throughout the year.

Phyllis P. Marshall Center

The Phyllis P. Marshall Center, more so than any other campus facility, serves as a focal point of daily activity for students, faculty, staff, alumni, guests and visitors. Located at the heart of campus at the apex of Cedar Drive, it is the community center of the University, providing a multitude of services and programs. The Marshall Center seeks to add another dimension to the educational experience by providing an environment for informal association outside the classroom. The Marshall Center was designed with the extracurricular life of the student in mind, to provide a sense of central place and identity for the University student. It is the place to meet new friends, engage in lively discussions, or take advantage of valuable services designed to improve the quality of life of the USF student. In addition, it is the goal of the Marshall Center to provide meeting space for faculty, alumni and staff, to provide recreational and informational services to the public and to foster a spirit of enthusiasm and community at USF.

Student Activities brings the Marshall Center to life. We are the "home" to over 200 student organizations. The Marshall Center Office of Student Activities (OSA) provides leadership development programs and opportunities through numerous programs including Volunteer USF, the Campus Activities Board, Multicultural Council, Homecoming Committee, Greek Life and the Student Organization program for students interested in leadership development.

The Marshall Center houses a diversity of programs and services: food services, organizational offices, meeting rooms, a Craft Shop, Game Room, study lounges, a travel service, and much more.

The Information Desk, located in the first level lobby, serves as the information center for student activities in the Center and the University. Services available through the Information Desk are discount and other ticket sales, residence hall voice mail sign-ups, Tampa area bus schedules, official USF lost and found, and current events information. Other services located on the first level include a USF Federal Credit Union branch with two automatic teller machines, the USF Card Center, STA Travel, food court, and Centre Gallery, a student directed art exhibition space.

The Marshall Center's conference and meeting facilities are available through the Reservations office. Meeting rooms hold from 12 to 2,250 people. Large rooms, such as the 1956 Ballroom, are perfect for dinners, social functions and large conferences.

Food service areas in the Marshall Center include the Tampa Room Food Court, with Taco Bell and Pizza Hut, and Good Stuff, Etc. on the first level. The Campus View restaurant is located on the fourth floor and offers an all-you-can-eat lunch buffet. Catering for events held in the Marshall Center is available through USF Catering Services for those wishing to hold a luncheon, reception or formal dinner.

The Marshall Center lower level houses WBUL Student Radio Station, SG Computer Services, the games and arcade area, Centre Studios, Bike Shop, vending machines, SAFE Team/SoberRide Offices and Cybor City. The Game Room area has billiard tables, video, computer, and pinball games, foosball, table tennis, chess, checkers, and card tables. Various collegiate tournaments are also coordinated through the games area. Centre Studios is available to students and non-students with classes offered in ceramics, photography, silkscreening and more. The Bike Shop, located on the lower level west end, provides bicycle repair and sales, parts and accessories. The weekly Flea Market is coordinated every Wednesday by the Marshall Center. The Market offers vendors, food and a social atmosphere for students.

Other Marshall Center services include a stamp machine, library bookdrop, and U-Ship automated shipping service.

Special Events Center

The Special Events Center adds a special dimension of entertainment to the USF Campus. With spacious stage and orchestra areas, auditorium-style seating, exceptional acoustics and high quality lighting equipment, this center is ideal for a wide variety of programs. The center, which accommodates 2,250, hosts concerts, cultural events, lecture series, musical and theatrical performances, as well as all types of special
events, and is also available for private functions. The Special Events Center is connected to the Marshall Center by a Skyway over Cedar Drive.

Student Government

Student Government (SG) is made up of three branches: the Executive (President, Vice President, Cabinet officers and agencies), Legislative (Student Senate) and Judiciary (Student Supreme Court) in which membership is open to any registered student. Student-wide elections occur in April each year. Student Government represents all student interests in programs, plans, policies, and procedures of the University and secures student representation to University governance. The SG office oversees the Activity and Service Fee Fund, which is allocated to student organizations and supports several services which SG offers. SG’s agencies include SAFE Team, Computer Services, SoberRide, Student Information Services, WBUS Radio Station, Internet Administration Services, and the Homecoming Steering Committee. Student Government will assist students with any type of grievance by acting as a liaison between students and University administration. To find out more information, please contact the Student Government Office in the Marshall Center, room 203 or call 974-2401.

Student Activities

The Office of Student Activities, on the second floor of the Marshall Center, provides advising and activities for students to experience growth outside the classroom setting. This office is an outlet for students to learn emotionally, intellectually, and physically while participating within a group. Services are provided to over 600 student organizations. Traditional USF activities such as Honors Week, Greek Week, and Student Organizations Showcase are coordinated through this office. The Student Organization Advisory Board (SOAB), an all-student committee, is made up of students representing the various organizations and serves as a resource to all organizations in regard to their programs, problems and general welfare. The Campus Activities Board (CAB) is a unique programming organization. Made up entirely of student volunteers, CAB offers students the opportunity to participate in planning and implementing a variety of programs for the University while developing valuable skills in marketing, budgeting, and program planning. Professional advisors are also available to counsel students on their programming needs.

Clubs and Other Organizations

The clubs, councils, and organizations formed by students represent a wide variety of interests. With over 270 student organizations, the Tampa campus of USF has groups organized for all types of activities.

New organizations are continually being formed. Professional staff members are available to assist individuals forming an organization, and to advise registered groups. For a current list of all organizations, or information on forming a group, contact the Office of Student Activities, located on the second floor of the Marshall Center.

Academic

Academic organizations have grown and will continue to grow as the needs of students studying in each of the academic areas increases. These groups include Africana Studies Club, Anthropology Club, Association of Computing Machinery, Association of Library and Information Science Studies, Association of Marketing Students, Association of Medical Science Graduates, Association of Minority Communicators, Colloquia for Literature and Linguistics, Economics Club, Engineering Transition Society, Geography Club, Geology Club, Graduate Business Association, Marine and Life Science Consortium, Mathematical Association Student Chapter, Microbiology Club, Minority Organization of Students in Education, National Student Speech Language Association, Minority Organization of Students in Education, Phi Mu Alpha Sinfonia, Religious Studies Community Forum, Sigma Alpha Iota, Social Sciences Education Club, Student Council for Exceptional Children, Student Finance Association, and University Psychology Association.

Councils

Various councils exist on the Tampa campus. Several of these councils unite organizations or people with similar purposes. These councils at USF include academic, honor, and professional organizations within their colleges. Councils present on campus include Architecture College Council, Argos Events Council, Arts and Sciences Student Council, Black Pan-Hellenic Council, Black Student Union, Business College Council, College of Education Student Council, College of Medicine Student Council, Cooperative Education Advisory Council, Council of Honor Societies, Engineering College Council, Graduate Student Association, Homecoming Steering Committee, Honors Program Student Council, Interfraternity Council, Latino Student Council, Organization of Student Representatives, Panhellenic Council, Public Health Student Association.

Greek

There are currently 17 national fraternities and 12 national sororities on the Tampa campus. These organizations provide a variety of social, educational, service, and recreational programs for their students. Support for these programs is coordinated through the Interfraternity Council, Panhellenic Council, and Black Pan-Hellenic Council with the advice of faculty and staff members.

Membership is open to any student through a program called Rush. Rush serves as an introduction to Greek life, allowing students to meet members of fraternities and sororities in formal and informal settings. Interfraternity Council Rush is held the first week of school in both the Fall and Spring semesters. Black Pan-Hellenic rush varies among each chapter. Panhellenic holds formal Rush the week prior to Fall Semester.

The sororities include Alpha Delta Pi, Alpha Kappa Alpha, Alpha Omicron Pi, Chi Omega, Delta Delta Delta, Delta Gamma, Delta Sigma Theta, Kappa Delta, Sigma Gamma Rho, Sigma Delta Tau, and Sigma Lambda Gamma.

The fraternities include Alpha Phi Alpha, Alpha Tau Omega, Beta Theta Pi, Chi Phi, Kappa Sigma, Lambda Chi Alpha, Phi Delta Theta, Pi Kappa Alpha, Omega Psi Phi, Sigma Alpha Epsilon, Sigma Alpha Mu, Sigma Chi, Sigma Lambda Beta, Sigma Nu, Sigma Phi Epsilon, Sigma Tau Gamma, and Zeta Beta Tau.

The Greek recognition society is the National Order of Omega.

Honor Societies

Honor societies recognize outstanding students for their scholastic or service achievements. Membership in honor organizations is usually by invitation. Honor organizations include Alpha Epsilon Delta, Alpha Phi Sigma, Alpha Pi Mu, Arts and Science Honors Society, Beta Alpha Psi, Chi Epsilon, Gamma Theta Upsilon, Golden Key, Kappa Delta Pi, Mortar Board, Omega Chi Epsilon, Order of Omega, Phi Eta Sigma, Phi Alpha Theta, Phi Kappa Phi, Phi Sigma Iota, Pi Gamma Mu, Pi Sigma Alpha, Psi Chi, and Tau Beta Pi.

International

International student organizations help meet the needs of international students and to increase the awareness of the University and the community about international students. International organizations include Association of Filipino Students, Caribbean Cultural Exchange, Chinese International Cultural Exchange, Chinese Student Union, Circulo Culturale Italiano, French Club, Friendship Association of Chinese Students and Scholars, German Club, Hellenic Student Association, International Festival Planning Committee, Korean Student Association, Latin American Student Association, Muslim

Political
Organizations for political and social change include College Republicans, College Democrats, Conservative Society, and Youth for Gramm.

Professional
The professional societies at USF focus their groups on profession oriented needs and interests of students. They include Accountants National Black Association, Advertising Club, American Chemical Society, American College of Health Care Executives, American Criminal Justice Association, American Institute of Aeronautics and Astronautics, American Institute of Chemical Engineers, American Medical Association, American Medical Student Association, American Medical Women’s Association/Women in Medicine, American Society of Civil Engineers, American Society of Mechanical Engineers, Association of Students for Public Administration, Black Graduate and Professional Student Organization, College Music Educators Conference, College of Nursing Student Council, Delta Sigma Pi, Family Practice Student Organization, Florida Engineering Society, Florida Medical Association, Graduate International Business Board, IEEE Computer Society, Institute of Electrical and Electronics Engineers, Institute of Industrial Engineers, Legal Brief, Mathematics Education Club, Management Information Systems Society, Minority Preprofessional and Sciences Society, Pi Mu Epsilon, Pre-Dental Society, Pre-Nursing Society, Semper Fi Society, Society for Technical Communications, Society of Professional Journalists, Society of Women Engineers, Special Libraries Association, Student Broadcasting Association, Student National Medical Association, and University Film and Video Association.

Religious
The University has encouraged student religious organizations to develop. Currently some of the religious groups are members of the Campus Ministry Association (CMA). The members of CMA include Baptist Campus Ministry, Episcopal Student Center, and Hillel Foundation Navigators. In addition to the Campus Ministries, there are diverse student religious organizations on campus. The religious organizations are: Alpha Omega, Association of Pagan Expression (APEX), Bahai Club, Campus Advance for Christ, Campus Bible Fellowship, Catholic Student Union, Chi Alpha, Dynamis, Fellowship of Christian Students, Friends of Israel Gospel Ministry, International Fellowship, Intervarsity Christian Fellowship, Latter Day Saints Student Association, New Generation Campus Ministry, Pagan Allied Network, Students of Biblical Research, Winner’s Guild, AFROTC, Alpha Sigma Lambda, Bull Spirits, Campus Ecology, Classics Society, Club Creole, Comic Denominator, Gay/Lesbian/Bi-sexual Coalition, Florida Water Environment Association, Greek Week Committee, Groove Team, International Studies Organization, Meditation Society, USF, Minority Business Association, Model United Nations, NASW Sub Unit (National Association of Social Workers), Non Traditional Students, NOW (National Organization for Women), Rhythm Motives, Student Admissions Representatives, Student Dance Production Board, Student Support Services Club, Students Organized Against Rape (SOAR), Students Taking An Active Role in Society, USF Gospel Choir, USF Middle Eastern Dance Association, USF Radio and Electronics Club, Vegetarian Dinner Club, Virtual Reality Exploration Society, WBUL, Student Radio, Wellness Committee, and Women's Studies Student Association.

Sports and Recreation
Sports and recreational organizations offer students the opportunity to enhance their physical well-being as well as their social lives. The Tampa campus has many organizations dedicated to leisure activities. Sports and recreational organizations include Aikido Club, Badminton Club, Barber’s Club, Baseline Bulls “Zoo Crew”, Bicycle Club, Bicycle Racing Club, Bowling Club, Chito Ryu Karate, Crew Team, Ice Hockey Club, Karate Club, Lacrosse Club, Rugby Football Club, Sailing and Windsurfing Club, Scuba Club, Surf Club, Table Tennis Club, Ultimate Frisbee Club, USF Men’s Volleyball, Wado Kai Karate/Taijutsu Club, Water Ski Club, and Women’s Rugby.

Campus Recreation
The Campus Recreation Program is designed to provide opportunities for participation in a wide variety of sports and recreational activities for the entire University community. The Campus Recreation Department offers five distinct divisions: informal recreation, outdoor recreation, intramurals, fitness/noncredit instruction, and sports clubs. The informal recreation division administers all recreational facilities. The division assists groups in reservations and ensures availability of recreational facilities for formal, drop-in use. Facilities include indoor and outdoor pools, gymnasiums, weight room/ activity rooms, tennis courts, racquetball courts, intramural fields, and jogging trail. Through the fitness/noncredit instruction division, students have the opportunity to take a wide variety of noncredit classes ranging from aerobics to scuba. Also, the Campus Recreation Center offers the opportunity to work out in a state-of-the-art weight room as well as participate in racquetball on six 4-wall courts.

The Outdoor Recreation Division offers students the opportunity to become involved in adventure trips (sailing, hiking, canoeing, skiing, etc.) as participants or as group leaders. The division also administers a fully equipped outdoor rental center and resource center. In addition, the division is responsible for the USF Riverfront Park, a complete riverfront recreational site located on the Hillsborough River, which includes a ropes/challenge course.

The Intramural program offers competitive and recreational tournaments in a variety of sports and recreational activities. The activities represent a broad selection of sports, varying from those of a noncompetitive type and include individual, team, and aquatic sports.

The sports clubs program supports student-organized groups ranging from aerobics to yoga. The sports clubs provide for instruction, recreation, and competition in various sports activities.

Service and Resource Organizations
Special Interest
Special-interest organizations cover a wide range of diverse activities. Those of the Tampa campus include Adventurer’s Guild, AFROTC, Alpha Sigma Lambda, Bull Spirits, Campus Ecology, Classics Society, Club Creole, Comic Denominator, Gay/Lesbian/Bi-sexual Coalition, Florida Water Environment Association, Greek Week Committee, Groove Team, International Studies Organization, Meditation Society, USF, Minority Business Association, Model United Nations, NASW Sub Unit (National Association of Social Workers), Non Traditional Students, NOW (National Organization for Women), Rhythm Motives, Student Admissions Representatives, Student Dance Production Board, Student Support Services Club, Students Organized Against Rape (SOAR), Students Taking An Active Role in Society, USF Gospel Choir, USF Middle Eastern Dance Association, USF Radio and Electronics Club, Vegetarian Dinner Club, Virtual Reality Exploration Society, WBUL, Student Radio, Wellness Committee, and Women’s Studies Student Association.

The many service/resource organizations at USF provide volunteer services and functions for the University and Tampa Bay area. The service/resource organizations offer aid and support to further enhance students’ needs and special interests.

Information about any of the above activities can be found at
the USF Campus Recreation Center, located directly northwest of
the Sun Dome, or by calling 974-3177.

Student Publications
The University has encouraged a program of campus communi-
cation through two publications. These publications are
all-University in approach and coverage. They are staffed by
students under the general supervision of the Office of Student
Publications.
A tabloid campus newspaper, the Oracle, is published five
times weekly, Monday through Friday during the Fall and
Spring, and two times weekly, Monday and Thursday, during
the Summer. Containing 12 to 20 pages in each issue, it
provides professional experience for those students interested
in print journalism.
Omnibus, a literary magazine, published annually, contains
prose, poetry, photos, and graphics produced by students.
Interested students are invited to apply for staff positions on
both publications.

STANDARDS AND STUDENT JUDICIAL PROCEDURES
Just as the University maintains high standards of academic
performance, the members of the University community sup-
port 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 the academic and personal
freedom within the University community.
Self-discipline and sensitivity to the rights and interests of
others are the principal elements of the University Student Code
of Conduct. The Student Code of Conduct sets forth a founda-
tion of values that represent a standard of expected behavior
both inside and outside the classroom.
Student judicial procedures are followed when a student fails
to exercise his/her responsibility in an acceptable manner or
Commits an offense as outlined in the student handbook.
The University disciplinary procedures afford students the opportu-
nity to participate in discussions of the matter and to present
information in one's own behalf, to seek counsel in one's own
best interest, and the right of appeal. Students are entitled to
participate in the development of standards of conduct supporting
their interests in the purpose of the University. The Univer-
sity Judicial procedures are described in the student handbook.
The University reserves the right to deny admission or refuse
enrollment to students whose actions are contrary to the pur-
purposes of the University or impair the welfare or freedom of other
members of the University community.
Students have often asked for advice on standards of dress and
personal appearance. The University does not have a formal dress code but campus attire is expected to be appropri-
ate for the activity in which the individual is engaged.

Grievance Procedure
In order to assure students the right to redress of grievances, the
Office of Student Relations is responsible for a grievance procedure involving non-academic matters. Any student may file a question, complaint, or statement of grievance in the Office of Student Relations, in person or in writing. A course of action or other answer will be given by the Associate Dean for Student Relations, as soon as possible. For academic grievances, the student should see the college dean in which the cause for the grievance occurred.

OTHER STUDENT SERVICES

Intercollegiate Athletics
USF fields 18 intercollegiate sports for men and women, all
at the NCAA Division I level. In men's competition, USF has
baseball, basketball, football, soccer, cross country, indoor
and outdoor track, golf and tennis. On the women's side are
baseball, golf, softball, tennis, golf, cross country, indoor and
outdoor track, soccer and volleyball.
The school became a charter member of ConferenceUSA in
1995.
The athletic facilities at USF are also second to none. The
Sun Dome, opened for the 1980-81 basketball season, is
undoubtedly one of the most unique and dynamic multipurpose
facilities in the Southeast. Lighted stadiums for the school's
softball, baseball, soccer, and track team provides pleasant
conditions for both the athletes and the spectators. The school
also has an 18-hole championship golf course, and varsity
tennis courts. The Bulls football team competes in a state of the
art stadium opened in 1998 and shared with the Tampa Bay
Buccaneers.

University Bookstores
The on-campus bookstores are owned and operated by the
University of South Florida and are self-supporting auxiliaries.
The primary function of the university bookstores is to extend
services to the students, faculty, staff, alumni and visitors of the
university. The USF Bookstore and the Health Sciences Book-
store are located on the Tampa Campus. The St. Petersburg
Campus Bookstore is located on the Bayboro Campus. VISA,
MasterCard, Discover and American Express are accepted at
all stores. The USFCard may also be used for purchases in the
Tampa Campus store.
The USF Bookstore - The USF Bookstore is located on Martin Luther King Plaza between the Marshall Center and the Student Services Building.
The bookstore offers a wide variety of books and merchan-
dise including: all course-required supplies and textbooks; a
complete selection of writing implements, folders, paper and
other class supplies; a wide selection of fiction, nonfiction and
magazine titles; college clothing; class rings; compact discs;
imprinted souvenirs and gift items. Macintosh and IBM comput-
ers, as well as most popular software applications, are available
at greatly reduced educational pricing, only to USF students,
faculty and staff members.
Personnel are available to assist customers in finding and/
or ordering course texts and general books. A continuous
Buyback Program offers a source for cashing in used textbooks.
The store is open Monday through Thursday from 8:00 a.m. -
7:00 p.m., Friday from 8:00 a.m. - 5:00 p.m. and Saturday from
10:00 a.m. - 4:00 p.m. During the beginning of each term, the
store has extended hours and additional registers open to
provide the fastest service possible. Ample parking is available
in the Crescent Hill Parking Facility.

Health Sciences Bookstore - Located in the Medical Center
(MDC 1021), the Health Sciences Bookstore offers medical
textbooks. Supplies, greeting cards, clothing, candy and other
items are also provided. The Health Sciences Bookstore is
open Monday through Friday from 8:00 a.m. to 5:00 p.m.

St. Petersburg Bookstore - The USF Bookstore at the St.
Petersburg campus is located in Coquina Hall 101 and offers
textbooks for St. Petersburg classes, general books, clothing,
school supplies and a variety of general merchandise items.
Store hours are from 9:00 a.m. to 8:00 p.m. Monday through
Thursday and from 9:00 a.m. to 5:00 p.m.

Campus Dining Services
USF Meal Plans offer a wide array of dining options. Conve-
nience, flexibility and value are built into each plan. So no matter
how hectic your schedule may be, we've got a plan to fit your time
table, lifestyle and budget.
We offer 13 plans for resident students. New freshmen
residential students and other students living on campus for the
first time have eight plans to choose from. Returning residents
can choose from this list of eight or select from an additional five plans.

**Freshmen and Other New Resident Meal Plans**

If you are a new freshman and will be living on campus or a transfer or returning student living on campus for the first time, you must select from one of the following eight meal plans: Carte Blanche with $100 flex bucks, Carte Blanche, 14 Meal Plan with $250 flex bucks, 14 Meal Plan with $150 flex bucks, 150 Block with $125 flex bucks, Straight 14 Meal Plan, 10 Meal Plan with $80 flex bucks, and Straight 10 Meal Plan.

**Please note:** Any unused flex bucks will be carried over from the fall to spring semester. They will not be lost; however, all unused flex bucks at the end of Spring semester will be forfeited.

**Returning Resident Meal Plans**

In addition to all the meal plans listed above, returning students can select from a list of five additional meal plan choices: 8 Meal Plan with $350 flex bucks, 8 Meal Plan with $250 flex bucks, 8 Meal Plan with $100 flex bucks, 100 Block Plan with $100 flex bucks, and $915 Full Declining Balance Program.

**Resident Dining**

- **Crossroads Café** (located in the Argos Center) - Crossroads offers breakfast, lunch and dinner seven days a week on an “all-you-can eat” basis.
- **Andros Center Dining** (Andros Center) - Brand new to the USF campus! (So new we haven’t had a chance to name it yet.)
- **The Corner Grocery** (Andros Center) - Serving the resident student’s needs seven days a week.

**Other Campus Dining Locations**

- **Tampa Room** (Marshall Center) - An exciting food court featuring Taco Bell and Pizza Hut.
- **Good Stuff, etc.** (Marshall Center) - USF’s own gourmet coffee shop. Featuring espresso based coffee drinks, Freshen’s frozen yogurt and smoothies, Manhattan bagels and much, much more.
- **The Campus View** (Marshall Center) - Located on the fourth floor of the Phyllis P. Marshall Center, offers buffet style dining with a spectacular view.
- **The Corner Store** (USF Bookstore Complex) - Located adjacent to the Bookstore and the Copy Center, another convenient store for all (or most) of your grocery needs.
- **Cooper Café** (Cooper Hall) - Featuring the Bay area’s largest Subway sandwich shop.
- **Firehouse Grill** (College of Business) - Located conveniently in the College of Business Administration, serving great burgers, chicken sandwiches, fries and a whole lot more.
- **The Gourmet Bean** (USF Library) - Fresh brewed gourmet coffee, sandwiches, salads, bagels, snacks and more.
- **Fast Break I** (College of Engineering) - Pizza Hut pizza, sandwiches, salads, soup, bagels, snacks and more.
- **Fast Break II** (College of Health Sciences) - Same as Fast Break I but located in the Health Sciences Complex.
- **Smoothie King** (USF Recreation Center) - Looking for a healthy snack or beverage? Stop by before or after your workout.

For More Information, call our toll free number 1 (800) 775-MEAL (6325). In Tampa call 974-4385. When visiting campus, stop by our office located in the Argos Center adjacent to Crossroads or view [http://www.auxsvc.usf.edu/](http://www.auxsvc.usf.edu/).

**USFCard**

The USFCard is the official I.D. card of the University of South Florida. University policies require that all student, faculty and staff members carry the USFCard while on campus. Students may be denied services if they do not have one. The USFCard may also be used to make purchases from on-campus copiers, snack and vending machines equipped with card readers. Value can be added to the vend stripe at Cash-to-card machines located around campus and at most coin/card copiers in the Library. This eliminates the need to carry coins and even saves money. If a student has an account with the USF Federal Credit Union, the USFCard can be used as an ATM card. The USFCard can also serve as a campusMCI calling card. For additional information: [http://www.auxsvc.usf.edu/](http://www.auxsvc.usf.edu/)
The Office of the Registrar maintains the official academic records for all students and course registrations for currently enrolled students. Students are encouraged to contact the Office of the Registrar about general questions concerning academic policies and procedures of their current registration or academic record.

**Note:** Each student must be aware of the University's academic policies and procedures insofar as they affect him/her.

### Academic Regulations and 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

The maximum load of an undergraduate student is 18 hours (Fall & Spring semesters) and 14 hours (Summer Term) unless approval is received from the dean or an authorized representative of the student's college. Students classified as undecided must receive approval from the Center for Academic Advising. In the Fall or Spring Semester 12 hours is the minimum load for a student to be considered as full-time.

- **Full-time Undergraduate Student Definition - Summer Term**
  - For: Academic purposes: 6 hours or more each session
  - For: Financial aid: Students must enroll for 12 hours (undergraduate) in any combination of Sessions "A," "B" and "C."
  - Session "C" (10 weeks)
    - For: Academic purposes: 9 hours or more
    - For: Financial aid: Students must enroll for 12 hours (undergraduate) in any combination of Sessions "A," "B" and "C."

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

Undergraduates may not enroll in 6000-level courses or higher without approval of the college/department in which the course is offered.

### 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, for example, may be offered only in alternate semesters or years, or even less frequently if there is little demand.

### Transfer of Credit To USF

USF will accept credits only from those institutions accredited by one of the accrediting agencies/commissions recognized by USF. However, USF reserves the right to deny credit for specific courses. The receipt and evaluation of total transfer credit are the responsibility of the Office of Admissions. The college of the student's major will determine which courses are applicable for his/her major.

#### Required Former Students Returning receive Orientation/Academic Advising/Registration instructions from the USF Office of Orientation.

Registered students may make schedule adjustments in the regular registration period during the preceding term or in the drop/add period during the first week of classes. (Deadline information is available in the Academic Calendar.)

Degree-seeking students who do not register prior to the first day of classes may late-register the first week of classes. A $100.00 late registration fee is charged during this week. (See the section on fees for additional information and the appropriate semester's Schedule of Classes for dates.) To avoid cancellation of registration, fees are due and payable for all registered courses of record on the fifth day of classes (end of drop/add period). (See Academic Calendar for dates.)

**NOTE:** A Mandatory Medical History Form is required for all students (regardless of age). According to Florida Administrative Code Rule 6C-6.001(4), "Each student accepted for admission shall, prior to registration, submit on a form, provided by the institution, a medical history signed by the student." Immunization Proof Required

As a prerequisite to matriculation or registration, the State University System of Florida requires all students born after 1956 to present documentation of proof of immunity to measles (Rubella). All students less than 40 years of age shall present documented proof of immunity to rubella (German Measles). (See Immunization Policy.)

### Academic Advising for Admitted Undergraduate Students

USF seeks to provide all students with sufficient guidance and advice to select programs and courses best suited to their personal abilities, educational interests, and career objectives. For students who have been admitted to the University, an academic advising office is maintained in each of the six colleges offering baccalaureate degrees as well as in the Center for Academic Advising. This latter office serves also as an initial point of contact for non-admitted, prospective, and/or non-degree seeking students who need information about the
University's academic structure. Students are cautioned that admission to the University does not imply admission to all programs and courses offered by the individual colleges; this is especially true with respect to colleges with limited access programs. Colleges such as Business, Education, Engineering, and Nursing have been designated as limited access colleges and require completion of certain prerequisites before a student may declare a major in one of them. It is important that students check the college section of the catalog for advising and admission requirements. Students planning to enter a limited access program should be aware that their admission by the college may be denied or delayed and should be prepared with alternative plans of action.

Lower-level transfer students (entering the University with fewer than 60 semester hours) and upper-level transfer students (entering with 60 or more semester hours) who do not meet the requirements of a limited access major are assigned initially to the Center for Academic Advising for advising. In the case of non-limited access colleges, students may declare a major by completing a form in the appropriate college advising office, usually during one of the orientations required by the University. Students who do not wish to declare a major or who cannot meet the necessary prerequisites of a limited access major are advised by the Center for Academic Advising. Upper-level transfer students (entering the University with 60 semester hours or more) who meet the admission requirements of a major are assigned to the college of that major for advising. A student must declare a major no later than the end of the junior year (90 semester hours).

It is necessary that all students determine their appropriate college and attend the appropriate University-mandated Orientation Program. The purpose of this initial contact is to assign an academic advisor and to provide the advising unit with routine information which assists it in collecting and maintaining the necessary records to assure the student's proper progress toward education goals. Transfer students should bring an unofficial or student copy of their transcript(s) at the time of orientation.

All students are encouraged to establish an advising relationship with a college or the Center for Academic Advising and periodically visit their advisors to keep abreast of any policy, procedural, or curriculum changes which may affect them. In fact, some colleges require advisor approval of student programs each semester.

While the University provides advising services to assist students with academic planning, the responsibility for seeing that graduation requirements are met rests with the student.

**Course Attendance at First Class Meeting**

This policy has been put into effect so that USF may effectively utilize classroom space and to insure that all students have maximum opportunity to enroll in classes where demand exceeds availability of seats.

Students are required to attend the first class meeting of undergraduate courses for which they registered prior to the first day of the term. Names of students who register prior to the first day of the term are printed on the first class roll for each course section. The first class roll is used by professors to drop students who do not attend the first day of class. Students have no attendance beyond the first class meeting. If students check the college advising office, usually during one of the orientations required by the University. Students who do not wish to declare a major or who cannot meet the necessary prerequisites of a limited access major are advised by the Center for Academic Advising. Upper-level transfer students (entering the University with 60 semester hours or more) who meet the admission requirements of a major are assigned to the college of that major for advising. A student must declare a major no later than the end of the junior year (90 semester hours).

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**Auditing Privilege**

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 nor will any grades or credit be given. The student's status for that class is an audit and his/her presence in the classroom is as a listener. A student must register to audit courses during the late registration period. (No audit registrations are processed during the regular registration periods.) Fees for audit are the same as for full enrollment for credit except out-of-state tuition is not charged. See University Schedule of Classes for detailed instructions and dates.

**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 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) are posted to the academic record with "W" grades assigned to the courses. Withdrawal deadlines for the Summer sessions are listed in the Academic Calendar and are published in the Schedule of Classes for the Summer Term. Students who withdraw may not continue to attend classes.

Students who withdraw during the drop/add period as stated in the Academic Calendar may receive a full refund of fees. A refund must be requested in writing from the Office of Purchasing and Financial Services. No refund is allowed after this period except for specified reasons. See "Refund of Fees" under Financial Information for complete details.

Repeat Course Surcharges

Initiated by the Florida Legislature (H.B. 1545 of 1997) to reduce costs, all state universities must monitor undergraduate student progress and charge students the “full cost of instruction” for certain repeats of undergraduate courses. This policy, which became effective Fall 1997, requires USF to charge students a substantial per credit hour surcharge when they attempt a course three or more times at USF, unless the course is specifically designed to be repeated or is required to be repeated by their major. Requirements to earn a passing or higher grade than previously earned in a course do not exempt the surcharge. The surcharge is $153.06 per credit hour during Summer 1998, but will be higher in the Fall. Students will be required to pay the surcharge in addition to the appropriate in-state or out-of-state tuition rates. It is important to note that all attempts count including withdrawals after the first week of classes and courses with incomplete grades. Exceptions for medical or personal hardship are possible via petition to the Academic Regulations Committee.

Transcript Information

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. Transcripts are normally mailed/readied for pick-up within two working days after the request is received. USF Transcript Request forms are available in the following offices: Tampa Campus Registrar’s Office, regional campuses’ Records & Registration offices, and all campuses’ Cashier’s offices.

Letter must include: (1) date of request and student's current address; (2) student ID number and full name; (3) name and complete address of recipient; and (4) number of copies and special instructions, such as, “hold for degree statement” or “hold for current term grades,” and the student’s signature. 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.

To order transcripts by mail, send payment ($5.00 per copy, check or money order only) and Request Form or letter to:

USF, SVC 1034
2402 E. Fowler Avenue
Tampa, FL 33620-6950

To order transcript in person, hand-carry payment (check, money order or cash) and Request Form or letter to a USF Cashier’s Office at any of the following Campus locations:

Tampa Campus
ADM 131
St. Petersburg - Davis Hall, Rm. 129
Sarasota - Lobby, Building D
Lakeland (Drop Box) - Bldg. E, Rm. 2127

Transcript request forms are available in these locations. Students may complete the request process in one stop at the cashier’s offices.

College Level Academic Skills Test

The College Level Academic Skills Test (CLAST) is a part of Florida’s system of educational accountability. CLAST is a state-mandated achievement test that measures attainment of communication and mathematics skills expected of students completing their sophomore year in college. These skills were identified by the faculties of community colleges and state universities and adopted by the State Board of Education. A student must pass the CLAST to achieve alternate criteria to receive an Associate in Arts or a baccalaureate degree from any Florida public institution.

Students who have already earned a baccalaureate degree from a regionally-accredited institution are exempt from the CLAST requirement at USF.

The State Board of Education has established minimum CLAST score standards for awarding the Associate in Arts degree and for the baccalaureate degree from October 1, 1992 as follows: Reading, 295; English Language Skills, 295; Mathematics, 295; and Essay, 6.

CLAST may be taken by undergraduate, degree-seeking students who have earned 18 semester hours or the equivalent and who apply to take the test on or before the deadline established for registration. Students at USF are required to take the CLAST by the time they complete 45 semester hours. First-time-in-college and lower-level transfer students are encouraged to take the CLAST as early as possible. Transfer students should take the CLAST the first semester they are enrolled as degree-seeking students if they have already exceeded the 45 hours from previous institutions.

If one or more subtests of the CLAST have not been passed or exemptions have not been awarded by the time a student completes 70 semester hours, the student may not register for classes until he/she has met with the appropriate college CLAST advisor. A course of study or method of preparation to remediate content covered in the failed subtest(s) will be selected and required. Further registration may be restricted for failure to attend the designated preparation.

If a student has completed 36 hours of upper level (3000 and 4000) courses after the first attempt to pass CLAST and has not satisfied the CLAST requirement, registration will be restricted to 1000 and 2000 level courses. Preparation will be required in each of the subtests failed. Further registration at USF will be denied for failure to complete the required preparation.

Students may receive exemptions for the CLAST examination by achieving specific EACT or SAT-I scores, or by earning a 2.5 GPA in specific courses. Exemptions are awarded for the communication subtests of CLAST if an SAT-I Verbal score of 500 or an EACT English of 21 and an EACT Mathematics score of 21 are achieved. Exemptions are awarded for the mathematics CLAST subtest if an SAT-I Mathematics score of 500 or an EACT Mathematics score of 21 is earned. Students receive exemptions from the CLAST communication subtests if a 2.5 GPA is achieved in at least six hours of ENC 1101 and ENC 1102. Exemptions from the CLAST mathematics subtest are issued when students have earned a 2.5 GPA in at least six hours of MAC 2102 or higher, MGF 2202 or higher and STA 2202 or higher. Any combination of these courses is permissible, providing only one statistics course is used to calculate the six-hour mathematics GPA.

Waivers from individual CLAST subtests are granted in two situations: 1) a specific documented learning disability prevents the student from achieving the skills set forth in SBE 6A-10.0316 (consult with Student Disability Services) and; 2) a student has successfully completed courses related to a specific subtest, but has failed to satisfy the CLAST requirement with a passing score or an exemption. After failing a CLAST subtest five times and successfully completing three terms of documentable preparation and a specific three-hour course related to the failed subtest, a student may apply for a waiver by submitting appropriate documentation to Evaluation and Testing (SVC 2054). A list of approved courses to satisfy this requirement is available in Evaluation and Testing.
Please Note: CLAST exemptions or waivers are not acceptable for admission or graduation from programs in the College of Education. Refer to the Office of Evaluation and Testing, SVC 2054, for the current policies on CLAST.

Courses to Satisfy Rule 6A-10.030

("Gordon Rule")

Prior to receiving an Associate of Arts degree from a public community college or university or a Bachelor's degree from a public university, a student shall complete successfully the following: 1. Twelve semester hours of English courses in which a student is required to demonstrate writing skills. For the purpose of this rule, an English course is defined as any seminar-length course within the general study area of humanities in which the student is required to produce written work of at least 6000 words. 2. Six semester hours of mathematics coursework at the level of college algebra or above. For the purpose of this rule, applied logic, statistics, and other such computation coursework, which may not be placed within a mathematics department, may be used to fulfill 3 hours of the 6 hours required by this section. In order to receive credit for fulfillment of 6A-10.030, students must receive a grade of "C" or higher in each course (no "S" grades).

In order to follow the specifics of 6A-10.030, USF has designated the following courses in which the student may demonstrate the writing and mathematical skills as set forth in this rule.

Communication (12 semester hours)

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>AFA 2000</td>
<td>Introduction to the Black Experience in Africa</td>
<td>3</td>
</tr>
<tr>
<td>AFA 4150</td>
<td>Africa and the United States</td>
<td>3</td>
</tr>
<tr>
<td>AFA 4335</td>
<td>Black Women in America</td>
<td>3</td>
</tr>
<tr>
<td>AFS 2250</td>
<td>Culture and Society in Africa</td>
<td>3</td>
</tr>
<tr>
<td>AMH 3510</td>
<td>U.S. Diplomatic History to 1898</td>
<td>4</td>
</tr>
<tr>
<td>AML 3604</td>
<td>African-American Literature</td>
<td>3</td>
</tr>
<tr>
<td>AMS 3001</td>
<td>American Culture 1880-1915</td>
<td>4</td>
</tr>
<tr>
<td>AMS 3260</td>
<td>American Culture 1830-1860</td>
<td>4</td>
</tr>
<tr>
<td>AMS 3370</td>
<td>Southern Women: Myth and Reality</td>
<td>3</td>
</tr>
<tr>
<td>ANT 4172</td>
<td>Historical Archaeology</td>
<td>3</td>
</tr>
<tr>
<td>ANT 4226</td>
<td>Anthropology of Art</td>
<td>3</td>
</tr>
<tr>
<td>ANT 4231</td>
<td>Folklore</td>
<td>3</td>
</tr>
<tr>
<td>ANT 4241</td>
<td>Magic and Religion</td>
<td>3</td>
</tr>
<tr>
<td>ANT 4340</td>
<td>The Caribbean</td>
<td>3</td>
</tr>
<tr>
<td>ANT 4432</td>
<td>The Individual and Culture</td>
<td>3</td>
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<tr>
<td>ANT 4620</td>
<td>Language and Culture</td>
<td>3</td>
</tr>
<tr>
<td>ANT 4750</td>
<td>Language and Social Interaction</td>
<td>3</td>
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<tr>
<td>ANT 4935</td>
<td>Rethinking Anthropology</td>
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<tr>
<td>ARC 4784</td>
<td>The City</td>
<td>3</td>
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<tr>
<td>ARH 3001</td>
<td>Introduction to Art</td>
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<tr>
<td>ARH 4770</td>
<td>History of Photography</td>
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<tr>
<td>ARH 4796</td>
<td>Critical Studies in Art History</td>
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</tr>
<tr>
<td>CCJ 4934</td>
<td>Seminar in Criminology</td>
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</tr>
<tr>
<td>CES 4000</td>
<td>Structures and Urban Environment for Non-Engineers</td>
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<tr>
<td>CHM 4070</td>
<td>Historical Perspectives in Chemistry</td>
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<tr>
<td>CJS 4250</td>
<td>Ethical Issues and Professional Conduct</td>
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<td>CLT 3101</td>
<td>Greek Literature in Translation</td>
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<tr>
<td>CLT 3102</td>
<td>Roman Literature in Translation</td>
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<td>COM 4020</td>
<td>Communicating Illness, Grief, and Loss</td>
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<td>COM 4030</td>
<td>Women and Communication</td>
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<td>COM 4710</td>
<td>Writing Lives</td>
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<td>CRW 2100</td>
<td>Narration and Description</td>
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<td>CRW 3111</td>
<td>Form and Technique of Fiction</td>
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<tr>
<td>CRW 3112</td>
<td>Fiction I</td>
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<tr>
<td>CRW 3121</td>
<td>Fiction II</td>
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</tr>
<tr>
<td>DAN 2100</td>
<td>Introduction to Dance</td>
<td>3</td>
</tr>
<tr>
<td>DAN 4120</td>
<td>Dance History Though the 19th Century</td>
<td>3</td>
</tr>
<tr>
<td>EDF 3228</td>
<td>Human Behavior and Environmental Selection</td>
<td>4</td>
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<tr>
<td>EEC 4488</td>
<td>Literature in Early Childhood Education</td>
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</tr>
<tr>
<td>EEX 4742</td>
<td>Narrative Perspectives on Exceptionality:</td>
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</tr>
<tr>
<td>ENC 1101</td>
<td>Freshman English I</td>
<td>3</td>
</tr>
<tr>
<td>ENC 1102</td>
<td>Freshman English II</td>
<td>3</td>
</tr>
</tbody>
</table>
### Grades, Scholarship Requirements, and Review Procedures

The University is interested in each student making reasonable progress towards his/her educational goals and will aid each student through guidance and faculty advising. To make students aware of their academic progress, the University has enacted a system of grading and policies of Academic Probation and Academic Dismissal which indicates whether or not a student is showing sufficient progress toward meeting degree requirements. Notations of Grades, Academic Probation and Academic Dismissal are posted to the student's academic record.

When a student is academically dismissed from the University and is ineligible to re-enroll, it may be in his/her best interest to re-enroll in his/her college. If the student's poor academic performance has resulted from extenuating circumstances or if after a period of time the student feels he/she has gained adequate maturity and motivation, he/she may petition the Academic Regulations Committee for permission to re-enroll. See "Academic Regulations Committee," for information on petitioning.

### Grading System

A student's measure of academic achievement is recorded on the academic record based on the following grading system:

- **A** Superior performance
- **B** Excellent performance
- **C** Average performance
- **D** Below average performance, but passing
- **E** Course repeated, not included in GPA
- **F** Failure
- **FF** Failure/academic dishonesty
- **I** Incomplete
- **IF** Incomplete grade changed to Failure
- **IU** Incomplete grade changed to Unsatisfactory
- **M** No grade submitted by instructor
- **MF** Missing grade changed to Failure
- **MU** Missing grade changed to Unsatisfactory
- **N** Audit
- **S** Satisfactory
- **U** Unsatisfactory
- **W** Withdrawal from course without penalty
- **WC** Withdrawal for extenuating circumstances
- **Z** Indicates continuing registration

### Grade Point Average

The University has a four-point system of grading used in computing grade point averages (A = 4 quality points, B = 3, C = 2, D = 1, F = 0). The grade-point average (GPA) is computed by dividing the total number of quality points by the total hours attempted at USF. 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. Credit hours for courses with grades of I, IU, M, MU, N, S, U, W, Z, and grades which are preceded by a "I" are subtracted from the total hours attempted before the GPA is calculated.

Credit hours for repeated USF coursework will be awarded only once per course unless the course is a university-approved repeatable course. "D" and "F" grades, however, for repeated USF coursework will be counted in the computation of the student's GPA as many times as those grades for that course are recorded. If a student originally earns a "C" or higher in a course that may not be repeated for additional credit and earns a "D" or higher on a subsequent enrollment the new grade is not computed in the USF GPA unless the forgiveness policy is being applied.

An "I" grade indicates incomplete coursework and may be awarded to graduate and undergraduate students. (Undergraduate rules apply to non-degree-seeking students.) It may be awarded to an undergraduate student only when a small portion of the student's work is incomplete and only when the student is otherwise earning a passing grade. Until removed, the "I" is not computed in the GPA for either undergraduate or graduate students. The time limit for removing the "I" is to be set by the instructor of the course. For undergraduate students, this time limit may not exceed two academic semesters, whether or not the student is in residence, and/or graduation, whichever comes first. "I" grades not removed by the end of the time limit will be changed to "IF" or "IU," whichever is appropriate. Whether or not the student is in residence, any change to "I" grades will be calculated in the cumulative GPA. If applicable, the student will be placed on appropriate probation or academically dismissed. Students are not required to re-register for courses in which they are only completing previous course requirements to change an "I" grade. However, if a student wants to audit a course for review in order to complete course requirements, full fees must be paid.
"M" Grade Policy

An "M" is automatically assigned as a default grade when the instructor does not submit any grade for an undergraduate student. (Undergraduate rules also apply to non-degree-seeking students.) Until removed, the "M" is not computed in the GPA. The time limit for removing the "M" may not exceed one academic semester (whether or not the student is enrolled) and/or graduation, whichever comes first. "M" grades that are not removed by the end of the next semester/term will be changed to "MF" or "MU," whichever is appropriate. Whether or not the student is enrolled, any change to "MF" grades will be computed in the cumulative GPA, and, if applicable, the student will be placed on appropriate probation or academically dismissed.

S/U Grade System

No-option Courses. Certain courses have been designated as S/U courses. The "S" and "U" grades are used to indicate the student's final grade. These S/U only courses are identified with (S/U only) after the course definition in this catalog. No grading system option is available to students or faculty in these courses.

Option Courses. Any undergraduate course may be taken on an S/U basis by a student under the following conditions and restrictions:

1. Required courses in the major may not be taken on an S/U basis.
2. Specifically designated required courses in the distribution requirements of the student's college may not be taken on an S/U basis.
3. Courses to satisfy 6A-10.30 (Gordon Rule) may not be taken on an S/U basis.
4. Courses to satisfy USF's B.A. foreign language requirement may not be taken on an S/U basis.
5. All elective courses for the major and all elective courses in the distribution requirements, and all other free elective courses may be taken on an S/U basis except where:
   a. The certifying college restricts the number of courses which may be taken on an S/U basis in any one or all of the above areas or restricts the total number of S/U courses which can be accepted for all of the above areas.
   b. The certifying college specifies that certain courses may not be taken on an S/U basis.
   c. The instructor of a course refuses to allow the course to be taken on an S/U basis.

Mechanism for Assigning S/U Grades. The method by which a student receives an "S" or "U" grade in an option course will consist of the following:

1. A written agreement signed by both instructor and student shall be filed with such offices as may be designated by the college. The college shall set the deadline (no later than the last day of classes for the term) for the student to decide if he/she wishes to take the course on an S/U basis.
2. The instructor shall assign final letter grades A, B, C, D, F, or I, but will transmit to the Registrar "S" or "U" consistent with the following:
   a. Letter grade A, B, C, or I shall be equivalent to a letter grade of "S."
   b. Letter grades D or F shall be equivalent to a letter grade of "U" and "U" grades are not computed in the student's GPA.

Grade Forgiveness Policy

USF's forgiveness policy permits an undergraduate to repeat a course and have the repeated grade computed in his/her GPA in place of the original grade, providing the repeat grade is "D" or higher (exception - see Honors at Graduation). A course that is repeated and the repeat grade is "F" will have both grades calculated into the GPA. Normally, grade forgiveness may only be applied to a specific course that a student chooses to repeat. No course taken on the S/U grade basis may have the grade forgiveness applied. Under unusual circumstances, a different but similar course may be used if the substitute course has been previously approved by the college dean and is on file in the Office of the Registrar.

Any undergraduate or non-degree seeking student who wishes to implement grade forgiveness must:

1. Complete a "Grade Forgiveness Request Form" (available in the Office of the Registrar) for each course to be repeated.
2. Adhere to the following conditions:
   a. A limitation of applying grade forgiveness to three USF courses with no more than one repeat per course.
   b. With prior approval of the college dean, a course different from a course on the approved list may be substituted in the following cases:
      (1) The substitute course is a change in prefix, number, hours, or title, but not a substantive change in content from the original course.
      (2) The substitute course replaces a course no longer offered by the institution.
   c. The repeated course must be taken under the standard grading system (A-F) and the latest grade must be D or higher (grades of S/U are not permitted).
   d. All grades remain on the transcript. The original course grade will be annotated with "E" to indicate that the course has subsequently been repeated and the original grade is not computed in the GPA.
   e. Individual colleges may have further restrictions, therefore, the student should consult with his/her college.

This policy is applicable to undergraduate and non-degree-seeking students on \( \leq \) 1000-5000-level courses. Once students have been awarded a bachelor's degree from USF, they may not repeat a course and be forgiven the original grade, taken prior to graduation.

The policy applies only to courses taken originally at USF and repeated at USF.

Good Standing

USF students will be considered in Good Standing if they are currently enrolled or eligible to return to USF.

Academic Record

The student's academic record shall not be changed after the student has graduated.

Academic Probation and Academic Dismissal for Undergraduate Students

The first time the academic record of an undergraduate or non-degree seeking student falls below a cumulative 2.00 grade point average (GPA), counting only USF grades, he/she will be placed on Academic Probation (AP). If the cumulative GPA is raised to 2.00 or higher at the end of the next term of enrollment, the student will be placed on Final Academic Probation (FP). A student on Final Academic Probation who fails to raise his/her GPA to 2.00 or higher at the end of the next term of enrollment will be Academically Dismissed (AD) from the university.

A student admitted to the university on probationary status will be placed on Academic Probation (AP) his/her first term with the above rules related to Final Academic Probation and Academic Dismissal applying. Academic advising prior to registration is mandatory until the student is removed from probationary status.

Any student who withdraws after the fifth day of classes while on Academic Probation or Final Academic Probation or who has been placed on Conditional Readmission by the Academic Regulations Committee will be Academically Dismissed. The determination and notification of probationary status or academic dismissal will be made by the Registrar's Office on the student's semester grade report and academic record.

A student who attends another college or university during academic dismissal will be classified as a transfer student and readmission will be based on the total record accumulated from all colleges and universities attended.

If a student who has accumulated fewer than 60 semester hours is academically dismissed from USF or falls below a 2.0
GPA and subsequently achieves an A.A. degree or an articulated A.S. degree from a Florida public community/junior college (or other SUS institution), that student, when returning to the University, will be automatically credited with a maximum of 60 semester hours and have his/her academic record cleared and the USF GPA will begin again.

If a student who has accumulated 60 or more semester hours is academically dismissed from USF or falls below a 2.0 GPA and subsequently receives an A.A. or an articulated A.S. degree from a Florida public community/junior college (or other SUS institution), that student, when returning to the University, will not automatically have his/her record cleared. The student must consult with his/her Academic Regulations Committee representative and must either:

a. Request that his/her academic record be cleared. If the student chooses this option and the Academic Regulations Committee approves the request, the student will be credited with a maximum of 60 semester hours and the USF GPA will begin again; or

b. Request that the USF hours and GPA be retained and receive specific stipulations from the Academic Regulations Committee to clear the student's academic record.

In either case, the decision must be made in the term of USF enrollment following the receipt of the AA degree and is considered to be a binding decision.

If a student is academically dismissed or falls below a 2.0 GPA from USF and subsequently receives a BA/BS from another four-year institution, that student, when accepted to the University with the post-baccalaureate status, will have his/her academic record cleared.

A student who has earned credit at USF and is academically eligible to return to the university and who subsequently receives an A.A. from a Community College, the posting of the AA degree and is considered to be a binding decision.

Academic Renewal

NOTE: This policy is under revision. Students should check with the academic advising office in their college, the Center for Academic Advising for undeclared majors, or the Office of the Dean of Undergraduate Studies for the latest information regarding Academic Renewal.

USF recognizes that not every student's academic record is flawless and that many times students get off to such a poor start that their future academic opportunities are limited. USF can offer many of those students a second chance. The University's Academic Renewal policy allows students, who provide evidence that they might now achieve academic success, to renew their pursuit of baccalaureate degrees without the burden of having to overcome the effects of low grades and low grade-point-averages that reflect academic work attempted years earlier. To facilitate this opportunity, students who qualify for Academic Renewal can have portions of their academic record expunged, with the approval of the Academic Regulations Committee.

Academic Renewal I – Students with fewer than 60 credits: Students who were academically dismissed (but who otherwise were eligible to return) from USF or other institutions of higher education prior to their successful completion of 60 transferable credits, may be admitted to the University with Academic Renewal after completing all requirements for the associate in arts degree or equivalent (including general education, Gordon Rule and CLAST requirements) at a two- or four-year college. Academic Renewal I students will be offered an opportunity to enter USF with all coursework and grades earned prior to their academic dismissal dropped from consideration in grade-point-average calculations at the University* and they may be excluded from admission to limited access programs. Further, students who exercise the Academic Renewal policy will not be considered for University Honors at graduation unless they meet the criteria using all grades earned.

Academic Renewal II – Students with 60 or more earned credits: Students who were academically dismissed (but who otherwise were eligible to return) from USF or other institutions of higher education after the successful completion of 60 transferable credits, may be admitted to the University with Academic Renewal II if they are able to provide convincing evidence of changes that indicate they might be successful given a new opportunity. Normally, such students will have been engaged in successful non-academic activities such as work or the military for at least five years. Academic Renewal II students will be offered an opportunity to enter USF with all coursework and grades from any three academic semesters (or equivalent) prior to their academic dismissal dropped from consideration in grade-point-average calculations at the University. Students who elect to exercise the Academic Renewal policy will not be allowed to use any credit earned during the academic terms from which courses are dropped from grade-point-average consideration toward meeting degree requirements at the University* and they may be excluded from admission to limited access programs. Further, students who exercise the Academic Renewal policy will not be considered for University Honors at graduation unless they meet the criteria using all grades earned.

*Students who engage the Academic Renewal I policy will lose the credit they earned before academic dismissal and students who engage the Academic Renewal II policy will lose the credit they earned during the terms (up to three) they choose to exclude from GPA calculations. They will not necessarily have to repeat a course completed with a grade of "C" or higher to meet specific course requirements.

College Policies For Academic Progress

Colleges may determine and implement standards of academic progress for undergraduate students (majors in the college) in addition to those established by USF. Students who do not meet the academic standards of progress set by their colleges will be placed on probation and may be disenrolled. The college dean is responsible for implementing standards of academic progress and for notifying students of their probationary or disenrollment status.

Colleges may restrict the course selections and the number of hours a student may take which do not apply toward completion of degree requirements. Students who exceed this limit may have part or all of their registration canceled.

Colleges are responsible for publicizing and students are responsible for knowing their college’s policies for academic progress.

Class Standing

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

0C Unclassified Non-degree-seeking students
1F Freshman 0 through 29 semester hours passed
2S Sophomore 30 through 59 semester hours passed
3J Junior 60 through 89 semester hours passed
4R Senior 90 or more semester hours passed; however, no baccalaureate degree earned here or elsewhere
5B Baccalaureate degree-holder working on a second undergraduate program or degree
6M Graduate student admitted to Master's Degree Program
6A Graduate student admitted to Specialist Degree Program
6C Admitted to Candidacy
6D Graduate student admitted to a Doctoral Degree Program
7A - 7D 1st-4th year professional program (M.D.) or post-doctoral status

Admission to a College

All newly-admitted students must be advised initially by an academic advisor. All undecided students are assigned to the Center for Academic Advising for purposes of advising until a choice of major is made. At that time, he/she may enter the college containing the major department. Undecided students...
may remain in this classification until a maximum of 90 semes-
ter hours are earned. After that time, a major must be selected.
New transfer students who have completed 90 or more hours
may remain undeclared for a maximum of two terms following
initial USF entry.

Change of Major
All undergraduate students desiring to change their major
should consult the Advising Office in the old and new college(s)
of their interest.

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 finan-
cial accounts must be made at the University Cashier's Office.
Each student placed on administrative hold should deter-
mine from the Office of the Registrar which office placed him/
her in this status and clear the obligation with that respective
office.

Student Information Changes
Notifications regarding changes of address, name, resi-
dency, and citizenship should be filed promptly with the Office
of the Registrar.

Final Examinations
Examinations in academic subjects are, for most courses,
an integral part of the learning process and one part of a
procedure for evaluating student performance and determin-
ing grades. USF requires certain standards for the examination
process in order to protect the academic integrity of courses
and the best interests of both the student and the instructor.

Testing in General: In each academic course, the student
is expected to undergo a meaningful testing and evaluation that
will reveal the student's intellectual growth in the subject matter
covered or otherwise reflect the achievement of the course
objectives.

The instructor has the responsibility of maintaining a fair and
impartial testing and examination procedure, has the right to
define and structure the testing process, and shall not be
restricted as to form, style or content of the examination. It is the
policy of USF that all students facing an examination (of any
type) shall have equal advance notice of the form and content
of that examination. The University regards the routine use of
all or part of the same formal examination for successive
academic terms as unsound policy except when used with
adequate safeguards such as a random selection of ques-
tions from a large pool.

Comprehensive Final Examinations: The last 6 days of the
Fall and Spring semesters shall be set aside for final exami-
nations, and any comprehensive final examination must
be given during this designated period. If a segment examination
is give in lieu of a comprehensive examination, the segment
exam in ation must be given in the period designated during
final examination week. Take-home final examinations, pa-
rpers, projects, particums, and competency examinations are
exceptions to the above rule and may be scheduled for comple-
tion at any time at the discretion of the instructor. The period of
two hours are allowed at that time, a final examination. If a
student has a direct conflict of scheduled examinations or has
three or more examinations scheduled on the same day, the
student may petition the appropriate instructor to reschedule
one of the student's examinations. The final examination
schedule shall be published in the same manner and place as the
Schedule of Classes.

Honors Convocation
The Honors Convocation is designed to recognize degree-
seeking undergraduate students for high academic perform-
ance during the previous academic year.

To be eligible to participate in the Fall Honors Convocation,
an undergraduate student must (1) have been enrolled during
Fall, Spring, or Summer of the previous academic year; (2) have
completed at least 24 USF graded (A-F) hours during that
academic year; (3) have at least a 3.500 USF GPA for those
minimum 24 hours; (4) have no incomplete ("I") grades; and (5)
be in the the top 10% of the qualified students for the college
in which the students is enrolled at the end of Summer Term.

Dean's List
Full-time undergraduate students who demonstrate super-
ior academic achievement during one semester will be hon-
ored on a "Dean's List." To be eligible for the Dean's List, a
student must be in a "pool" (defined hereafter) and must
determine 12 hours of graded (A-F) USF courses with no
incomplete grades during the semester. The "pool" consists of all students who have registered for at least 12 hours of USF
courses in a given semester. The Dean's List shall consist of
the fewer of: 1) the upper 10% of the enrollment of the college
or 2) students in the college with a USF 3.5 GPA or above (ties
at the 90th percentile will be included in the honors group).
The dean of the college in which the student is majoring or
the Dean of Undergraduate Studies for undeclared students
will recognize this academic honor. Students who are eligible
should contact their College Advising Office for information.

Academic Regulations Committee
The Academic Regulations Committee (ARC) meets regu-
larly to review petitions submitted by undergraduate students
to waive University academic regulations. Students must pe-
tition and secure approval of the committee to return to the
University after having been academically dismissed or to
waive academic deadlines.

Effective Fall, 1998/99, the University is implementing a
student satisfaction survey and student petitions for retroactive adds,
drops, withdrawals, and registration. A student will be
limited to two calendar years (six academic semesters/terms) for such
appeals whether the student is in attendance or not.

The committee normally meets once a week on Tuesday.
To petition the committee, a student must secure the appropri-
ate form from the Office of the Registrar and consult with the
ARC representative from his/her college prior to submitting the
petition form. Completed forms should be returned to the Office
of the Registrar no later than the preceding Thursday, to
be reviewed at the next week's meeting. Students will receive
notification of the committee's action the following week.

Student Academic Grievance Procedures
Student academic grievance procedures exist at USF to
provide students the opportunity for objective review of facts and
events pertinent to the cause of academic grievances. Such
review is accomplished in a collegial non-adversary atmosphere
rather than an adversary one and allows the parties involved to
participate.

An Academic Grievance Committee, composed of an equal
number of faculty and student members, exists in each under-
graduate college for the general purpose of considering stu-
dent academic grievances and making recommendations based
on these considerations to the dean of the college in which
the alleged grievance occurred.

For information, contact the dean of the college in which
the cause of the academic grievance occurred.

Academic Dishonesty And Disruption Of
Academic Process
Students attending USF are awarded degrees in recogni-
tion 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.
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, 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:

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.]

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. [Quotation]
   b. Plagiarism comes from a Latin word meaning "kidnapping" and ranges from paraphrasing to theft.
   c. Plagiarism ranges from inept paraphrasing to outright theft. [Footnote/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.]

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, such as research 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."

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 expelled from the University.

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 orwords 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 exam, 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 which involve the safety, health or welfare of any student or staff member.

Non-Emergency Hearing before the Academic Committee General Principles

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 which 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 which 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 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 decision, except in cases of emergency, as described above. If the issue remains open at the end of the semester, the instructor shall give the student an "I" grade in the course until all issues are resolved.

Closed Hearings. All hearings shall be closed unless specifically requested 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.

Liberal Arts Requirements

All new USF students and Former Students Returning are required to take 45 semester hours to satisfy the complete liberal arts requirements. Thirty-six (36) semester hours will satisfy the general education course requirements and 9 semester hours will satisfy the exit requirements. These requirements are distributed as follows:

General Education Requirements

English Composition

Quantitative Methods

Natural Sciences

Social Sciences

Historical Perspectives

Fine Arts

African, Latin American, Middle Eastern or Asian Perspectives

3

Exit Requirements

Major Works and Major Issues

Literature and Writing

*Courses may be certifed in more than one area, but students may use each course in only one (1) area.

Courses in the liberal arts requirements should incorporate the following components whenever they are relevant to the specific discipline: the learning skills of conceptual thinking, analytical thinking, creative thinking, written expression, oral expression, and the dimensions of values and ethics, international perspectives, environmental perspectives, race and ethnicity, and gender. When warranted by the subject matter, each course must incorporate consideration of at least one of the dimensions and one of the thinking skills to meet the liberal arts requirements.

Departments should ensure that courses proposed for the liberal arts have sufficient depth and breadth. These courses will share the substantive rigor and intellectual challenge of courses offered for major credit, with the specific feature of offering an integrative perspective of the discipline and its relationship to academia as a whole. Additionally, such courses will encourage majors to interact with students from other disciplinary backgrounds.

Whenever possible, courses will encourage creativity and discipline in the written and oral uses of language. The writing experience for students will emphasize the qualitative aspects of developing writing skills. Writing requirements will entail substantive feedback for students rather than merely the correction of spelling and punctuation. The goal is to include a writing component in all appropriate liberal arts course requirements, even if this component is not equivalent to the Gordon Rule requirement. Courses will also encourage the development of oral expression skills. Students should be given opportunities to improve the ability to express ideas orally, and to listen and comprehend with the ear and eye attuned to both verbal and non-verbal forms of communication. Oral skills can be enhanced by employing active learning techniques such as student presentations, instructor-student dialogues, debates, and discussion groups.
It is essential that the information about the dimensions of values and ethics, international perspectives, environmental perspectives, race and ethnicity, and gender be integrated, whenever possible, throughout courses included in the new requirements, rather than provided as a separate set of lectures or activities. While a particular course may emphasize only one or two of these themes, the liberal arts requirement in its entirety will have a significant portion of its course content devoted to these dimensions. This requirement may necessitate a revision of the ways in which many courses are taught. The University is committed to supporting faculty as they prepare to teach these new aspects of the curriculum. Opportunities for faculty workshops will be made available through the Center for Teaching Enhancement.

A student's liberal arts education will continue throughout the college years and not be limited to a relatively small number of required courses in the first two years of college. Exit requirements will provide students with an opportunity during their junior and senior years at USF to integrate their knowledge within the context of liberal arts. Courses that satisfy the exit requirements will, where appropriate, incorporate considerations of values and ethics; international perspectives; race and ethnicity; and gender. By their junior and senior years, students will have a foundation in liberal arts and be better able to reflect upon ethical issues in a constructive way.

In the major works and major issues courses, students will build upon the principles, concepts, and knowledge acquired in lower-division courses. The major works strengthen their knowledge of disciplines related to their majors or careers or to develop depth and/or breadth in areas of interest that are not necessarily related to their majors.

The literature and writing requirement is intended to provide an opportunity for students to continue their liberal arts education by allowing students to read significant literature of the world and write at least 6,000 words.

All exit requirement courses will be seminar-size courses in which enrollment will be targeted at approximately 20 to 25 students. These courses will be taught by regular faculty.

GENERAL EDUCATION COURSE REQUIREMENTS (36 Semester Hours)

English Composition: This requirement consists of a minimum of six (6) semester hours of approved course work in English Composition. Students may satisfy this requirement during the second semester freshman level of composition in the following ways: by earning a letter grade of "C" or better at USF, by obtaining a passing score on the CLEP Freshman English test, or by receiving AP English credit. With the exception of the CLEP test, these courses will also allow students to meet a portion of their State of Florida rule 6A-10.30 Gordon Rule requirements. To satisfy the Gordon Rule, students must earn a letter grade of "C" or better in these courses.

Quantitative Methods: Competence in a minimum of six (6) semester hours of approved mathematics coursework at the level of college algebra or higher is required. These courses should include both a practical component, providing students with an understanding of the application of the material to other disciplines. At least three (3) semester hours must be taken in a mathematics department. The remaining hours may be taken in any approved mathematics, statistics, or logic courses that include both a practical and historical component as previously described.

Natural Sciences: Students should successfully complete a minimum of six (6) semester hours of approved coursework in the natural sciences. Students are encouraged to enroll in courses with a laboratory component. It is a goal that all students have at least one science course with a laboratory; however, facilities and personnel resources prohibit that requirement at this time. Courses may be interdisciplinary. The courses may deal with the content, theories, history, presuppositions, and methods of the discipline. They will include demonstrations and address problems, ambiguities, and different perspectives in the discipline. They will also provide students with an appreciation of how the discipline fits within the natural sciences and relates to their own lives and the broader human experience.

Social Sciences: Students must successfully complete a minimum of six (6) semester hours of approved coursework in the social sciences; the courses may be interdisciplinary and need not be sequential. Courses in the social sciences shall involve those disciplines considered to be social sciences in that they deal theoretically and empirically with individuals and their relationships to each other and to society. Courses must deal with the content, theories, history, presuppositions, and methods of the discipline. They should also address problems, ambiguities, and different perspectives in the discipline. These courses will provide students with an appreciation of how the discipline fits within the social sciences and relates to their own lives and the broader human experience.

Historical Perspectives: A minimum of six (6) semester hours of approved coursework in history of Western Civilization. Courses are not limited to those in the discipline of history; however, the courses will have a historical perspective in that they provide students with a sense of the evolution of societies and peoples, including analysis of their history. A sense of chronology is necessary in these courses, but not sufficient. A historical perspective also entails analyses of various elements, such as the intellectual, cultural, artistic, economic, social, political, and religious characteristics of societies and peoples.

Fine Arts: Students are required to successfully complete a minimum of three (3) semester hours of approved coursework in the fine arts. Courses in the fine arts shall involve those disciplines considered to be fine arts in that they deal theoretically and experientially with the aesthetic dimensions of individuals and groups. Courses will concern the creative experience that takes into account the perspectives of both the artist and the public. They may be interdisciplinary and must involve the content, theories, history, presuppositions, and methods of the fine arts. They will address problems, ambiguities, and different perspectives in the disciplines of fine arts. These courses will also provide students with an appreciation of how the disciplines fit within fine arts and relate to their everyday experiences.

African, Latin American, Middle Eastern, or Asian Perspectives: Students will take a minimum of three (3) semester hours of approved coursework in one of the above listed geographical areas. Course content may include social, political, and economic as well as artistic, cultural, and intellectual subject matter. The material will be presented within a geographical, chronological, and/or humanities background and will necessarily be selective.

All courses listed are certified as meeting the General Education requirement as of April, 1997. Additional courses may have been certified since that date. Please consult with an academic advisor for current and additional information.

GENERAL EDUCATION REQUIREMENT

ENGLISH COMPOSITION
ENC 1101 Freshman English I - 6A
ENC 1102 Freshman English II - 6A
ENC 1121 Freshman English I: Honors - 6A
ENC 1122 Freshman English II: Honors - 6A

QUANTITATIVE METHODS
MAC 2102 College Algebra - 6A
MAC 2132 College Algebra and Trigonometry - 6A
MAC 2230 Business Calculus - 6A
EXIT REQUIREMENTS  

(9 Semester Hours)  
**Major Works and Major Issues**: A portion of the exit requirements consists of a minimum of six (6) semester hours of approved coursework concerning major works and major issues. Courses will focus on major issues, documents, or works, and will allow students to read primary texts. These courses may allow students to delve into topics on an interdisciplinary basis. Students will be encouraged to write enough to fulfill Gordon Rule requirements. One of the Major Works and Major Issues courses, if taken outside the student’s major discipline(s), may be taken for S/U credit with the consent of the instructor.

Major Works and Major Issues courses must offer the opportunity for integration of content. These courses will have a liberal arts content and, when appropriate, will contain in-depth discussions of values and ethics, international and environmental perspectives, race and ethnicity, and gender. Courses may be interdisciplinary and may be team taught. This will provide students with an opportunity to explore, in-depth and on an interdisciplinary basis, major topics that are important but outside of the major field of study.

**Literature and Writing**: In addition, students will take three (3) semester hours of approved exit requirement coursework in literature and writing. These courses will allow students to read significant literature of the world and write at least 6,000 words. Significance of the literature will be determined by the department offering the course. The 6,000-word requirement meets Gordon Rule requirements and is for students who may wish to satisfy some of this requirement with upper-level courses. The writing requirement may be satisfied with assignments that include, for instance, revision and rewriting, and process writing. This requirement may be satisfied through comparative literature courses. These literature courses need not be limited to the English Department. The course may be taken within the major if appropriate. The courses will focus on the dimensions of values and ethics, international and environmental perspectives, race and ethnicity, and gender.

All students must achieve an overall average of “C” (2.0 GPA) in the lower level requirements and a grade of “C” or better in each of the exit requirement courses. Students will take at least one of the Liberal Arts Exit courses outside their discipline(s). The discipline will be decided by the department offering the course. For purposes of this document, the term “discipline” refers to the following fields: business, education, engineering, fine arts, health sciences, letters, natural sciences, and social sciences. One of the Major Works and Major Issues courses, if taken outside the student’s major discipline(s), may...
be taken for S/U credit with the consent of the instructor. Only courses numbered 3000 or above may be used to satisfy the exit requirements. **Exit requirements must be taken at USF.**

Although post-secondary foreign language courses may not be required for all graduates, students are encouraged to become competent in at least one foreign language. Foreign language study enriches the command of English, enlarges cultural perspective, and enhances learning skills.

All courses listed are certified as meeting the Exit requirement as of April, 1999. Additional courses may have been certificated since that date. Please consult with an academic advisor for current and additional information.

### EXIT REQUIREMENT COURSES

#### MAJOR WORKS AND MAJOR ISSUES

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
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<tbody>
<tr>
<td>AFA</td>
<td>4335 Black Women in America -6A</td>
</tr>
<tr>
<td>AMS</td>
<td>4804 Major Ideas in America</td>
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<tr>
<td>ANT</td>
<td>4149 Fantastic Archeology</td>
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<tr>
<td>ANT</td>
<td>4241 Magic and Religion -6A</td>
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<tr>
<td>ANT</td>
<td>4303 Sex Roles in Cross-Cultural Perspective</td>
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<td>ANT</td>
<td>4316 Ethnic Diversity in the United States</td>
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<td>ANT</td>
<td>4340 The Caribbean -6A</td>
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<td>ANT</td>
<td>4401 Exploring Cross Cultural Diversity</td>
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<td>ANT</td>
<td>4432 The Individual and Culture -6A</td>
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<td>ARC</td>
<td>4784 The City -6A</td>
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<tr>
<td>ARH</td>
<td>4453 Modern Political Iconography</td>
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<tr>
<td>ARH</td>
<td>4710 History of Photography -6A</td>
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<tr>
<td>BSC</td>
<td>4057 Environmental Issues</td>
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<td>BSC</td>
<td>4850 Sociobiology</td>
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<td>CCJ</td>
<td>4934 Seminar in Criminology -6A</td>
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<td>CES</td>
<td>4000 Structures and Urban Environment for Non-Engineers -6A</td>
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<td>CGN</td>
<td>4122 Professional and Ethical Issues in Engineering</td>
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<td>CHM</td>
<td>4070 Historical Perspectives in Chemistry -6A</td>
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<tr>
<td>CIS</td>
<td>4250 Ethical Issues and Professional Conduct -6A</td>
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<tr>
<td>CLT</td>
<td>3101 Greek Literature in Translation -6A</td>
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<td>CLT</td>
<td>3102 Roman Literature in Translation -6A</td>
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<td>COM</td>
<td>4030 Women and Communication -6A</td>
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<td>DAN</td>
<td>4135 20th Century Dance History -6A</td>
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<tr>
<td>ECO</td>
<td>3703 International Economics</td>
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<td>ECO</td>
<td>4323 Marxist Political Economy</td>
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<td>ECP</td>
<td>3201 The Economics of Women and Work</td>
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<td>ECP</td>
<td>3302 Environmental Economics</td>
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<td>ECS</td>
<td>4003 Comparative Economic Systems</td>
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<tr>
<td>EDF</td>
<td>3278 Human Behavior and Environmental Selection -6A</td>
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<td>EDF</td>
<td>3542 Philosophy of Education</td>
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<td>EDF</td>
<td>3604 Social Foundations of Education</td>
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<td>EGN</td>
<td>4831 Technology &amp; Society</td>
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<td>EIN</td>
<td>4365 Facilities Design II</td>
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<td>4551 Capstone Design</td>
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<td>EVR</td>
<td>4027 Wetland Environments</td>
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<td>EVT</td>
<td>4651 Equity in Schools and the Workplace -6A</td>
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<td>4890 Business Policy</td>
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<td>GEO</td>
<td>4372 Global Conservation -6A</td>
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<td>GEO</td>
<td>4470 Political Geography</td>
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<td>4604 Advanced Urban Geography</td>
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<td>GET</td>
<td>3100 German Literature in English Translation: Variable Topic</td>
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<td>GLY</td>
<td>4045 Moons, Planets and Meteors: An Introduction to Planetary Science</td>
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<td>GLY</td>
<td>4053 Theories and Arguments About the Earth</td>
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<td>GLY</td>
<td>4734 Beaches and Coastal Environments</td>
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<td>GLY</td>
<td>4805 Geology and Development of Modern Africa</td>
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<td>HIS</td>
<td>3308 War and Society</td>
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<td>HIS</td>
<td>4936 Pro-Seminar in History</td>
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<td>HUM</td>
<td>4938 Major Issues in the Humanities</td>
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<td>IDS</td>
<td>3115 Values and Choices -6A</td>
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<td>3663 Critical Issues Affecting the Arts</td>
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<td>INR</td>
<td>3018 World Ideologies</td>
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<td>3033 International Political Cultures</td>
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<td>INR</td>
<td>3202 International Human Rights</td>
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<td>INR</td>
<td>4089 Conflict in the World</td>
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<td>INR</td>
<td>4254 Africa in World Affairs</td>
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<td>INR</td>
<td>4935 Seminar in Social Sciences</td>
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<td>ISS</td>
<td>3103 Great Literature of the World -6A</td>
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<td>LIT</td>
<td>3301 Cultural Studies and the Popular Arts -6A</td>
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<tr>
<td>LIT</td>
<td>3374 Bible as Literature</td>
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<tr>
<td>LIT</td>
<td>3383 The Image of Women in Literature -6A</td>
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<td>LIT</td>
<td>3451 Literature and the Occult -6A</td>
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<td>LIT</td>
<td>4086 British and American Literature by Women -6A</td>
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<td>LIT</td>
<td>4080 Literature as a Cultural Study</td>
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<td>MHF</td>
<td>4403 The Early History of Mathematics -6A</td>
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<td>4052 Human Relations Skills in Counseling</td>
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<td>3301 Music History/Baroque and Classic</td>
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<tr>
<td>MUH</td>
<td>3302 Music History/Romantic and 20th Century</td>
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<tr>
<td>MUH</td>
<td>4058 Intercultural Music in the Twentieth Century</td>
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<td>NUR</td>
<td>3829 Ethical Legal Aspects in Nursing and Health Care</td>
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<td>4194 An Interdisciplinary Perspective on HIV -6A</td>
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<td>4600 Contemporary Philosophy -6A</td>
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<td>4320 Philosophy of Mind -6A</td>
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<td>4120 Major Black Thinkers</td>
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<td>4010 Aristotle -6A</td>
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<td>4788 Philosophy of Marxism -6A</td>
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<td>4031 Great Themes in Physics -6A</td>
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<td>POS</td>
<td>4694 Women and Law II -6A</td>
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<tr>
<td>PGT</td>
<td>4681 The Politics of Identity, Difference and Inequality</td>
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<td>PUP</td>
<td>4323 Women and Politics -6A</td>
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<tr>
<td>REL</td>
<td>3114 Comedy, Tragedy and Religion -6A</td>
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<td>3148 Womanist Vision in Religion</td>
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<td>3155 Life After Death -6A</td>
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<td>3280 Biblical Archeology</td>
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<td>REL</td>
<td>3303 Comparative Religion: Judaism and Islam</td>
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<td>3375 Issues in Caribbean Religions</td>
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<td>3465 Religion and the Meaning of Life -6A</td>
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<td>3561 Roman Catholicism -6A</td>
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<td>3602 Classics of Judaism -6A</td>
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<tr>
<td>REL</td>
<td>3613 Modern Judaism -6A</td>
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<td>REL</td>
<td>4113 The Hero and Religion -6A</td>
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<td>4133 Mormonism in America</td>
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<td>4171 Contemporary Christian Ethics -6A</td>
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<td>REL</td>
<td>4221 Who Wrote the Bible(Genesis-Kings) -6A</td>
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<td>4626 Reason in Religion: Talmudic Logic</td>
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<td>4670 Judaism and Christianity After the Holocaust -6A</td>
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<td>3500 Russian Civilization -6A</td>
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<td>3110 Russian Classics in English -6A</td>
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<td>3111 Twentieth-Century Russian Literature in English -6A</td>
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<td>SCE</td>
<td>4237 Science, Technology and Society Interactions -6A</td>
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<td>4050 Introduction to the Clinical Process</td>
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<td>SPC</td>
<td>4201 Oral Tradition</td>
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<td>4714 Communication, Culture and Community</td>
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<td>4935 Senior Seminar</td>
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<td>SYO</td>
<td>4430 Disability and Society</td>
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<td>4420 Consumer Culture -6A</td>
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<td>THE</td>
<td>4180 Theatre Origins -6A</td>
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<tr>
<td>THE</td>
<td>4320 Theatre of Myth &amp; Ritual/Modern European &amp; Oriental -6A</td>
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<td>THE</td>
<td>4330 Shakespeare for the Theatre -6A</td>
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<tr>
<td>THE</td>
<td>4401 O’Neill and After -6A</td>
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<tr>
<td>THE</td>
<td>4435 Theatre of Pluralism -6A</td>
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<td>THE</td>
<td>4562 Contemporary Performance Theatre -6A</td>
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<tr>
<td>WST</td>
<td>3225 Women, Environment and Gender</td>
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<tr>
<td>WST</td>
<td>4260 Research Issues on Women of Color -6A</td>
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<tr>
<td>WST</td>
<td>4310 Feminism in America -6A</td>
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LITERATURE AND WRITING
AML 3604 African-American Literature -6A
DAN 4134 Dance History Though the 19th Century -6A
EEC 4008 Literature in Early Childhood Education -6A
EEX 4742 Narrative Perspectives on Exceptionality: Cultural and Ethical Issues -6A
LAE 4414 Literature in Childhood Education -6A
LAE 4464 Adolescent Literature for Middle & Secondary Students -6A
LIT 3073 Contemporary Literature -6A
LIT 3103 Great Literature of the World -6A
LIT 3301 Cultural Studies and the Popular Arts -6A
LIT 3383 The Image of Women in Literature -6A
LIT 3451 Literature and the Occult -6A
LIT 4386 British and American Literature by Women -6AC
LIT 4395 American Studies -6A
NUR 4194 An Interdisciplinary Perspective on HIV -6A
POT 4109 Politics and Literature -6A
REL 3613 Modern Judaism -6A
REL 4221 Who Wrote the Bible (Genesis-Kings) -6A
REL 4670 Judaism and Christianity After the Holocaust -6A
RUT 3110 Russian Classics in English -6A
RUT 3111 Twentieth-Century Russian Literature in English -6A
SYA 3310 Qualitative Inquiry -6A
SYP 4420 Consumer Culture -6A
THE 4330 Shakespeare for the Theatre -6A
THE 4360 The 19th Century Theatre Revolution -6A
THE 4442 The Comedy of the Classic and Neoclassic Stage -6A
WST 4262 Literature by American Women of Color -6A
WST 4263 Third World Women Writers -6A

“Outside the Discipline” Liberal Arts Exit Courses

Outside the discipline in Liberal Arts Exit courses is defined as outside a cluster of departments or programs. Students with majors in these programs must take at least one certified Liberal Arts Exit course from any of the other clusters identified below.

Cluster 1: Arts & Letters - Students with majors in these programs must take at least one certified Liberal Arts Exit course in Clusters 2-8.

American Studies Humanities
Classics & Classical Languages Liberal Studies
Communication Mass Communications
English Philosophy
French Religious Studies
German Russian
Spanish

Cluster 2: Natural Sciences - Students with majors in these programs must take at least one certified Liberal Arts Exit courses in Clusters 1 or 3-8.

Biology Interdisciplinary Natural Sciences
Chemistry Mathematics
Environmental Science Medical Technology
and Policy Microbiology
Geology Physics

Cluster 3: Social Sciences - Students with majors in these programs must take at least one certified Liberal Arts Exit course in Clusters 1 or 2 or 4-8.

Africana Studies Interdisciplinary Social Sciences
Anthropology International Studies
Economics Political Science
(Social Sciences) Psychology
Geography Social Work
Gerontology Sociology
History Women's Studies

Cluster 4: Business - Students with majors in these programs must take at least one certified Liberal Arts Exit course in Clusters 1-3 or 5-8.

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

Cluster 5: Engineering - Students with majors in these programs must take at least one certified Liberal Arts Exit course in Clusters 1-4 or 6-8.

Chemical Engineering Industrial & Management
Civil Engineering Engineering
Computer Engineering Information Systems
Computer Science (Engineering)
Electrical Engineering Mechanical Engineering
Engineering Science

Cluster 6: Fine Arts - Students with majors in these programs must take at least one certified Liberal Arts Exit course in Clusters 1-5 or 7-8.

Art Music
Art History Theatre

Cluster 7: Education - Students with majors in these programs must take at least one certified Liberal Arts Exit course in Clusters 1-6 or 8.

Behavior Disorders Industrial-Technical Business and Office Education
Education Mathematics Education
Distributive Education Mental Retardation Education
Elementary Education Social Studies Education
English Education
Foreign Languages Specific Learning
Education Disabilities Education

Cluster 8: Nursing - Nursing majors must take at least one certified Liberal Arts Exit course in Cluster 1-7.

Exceptions to the Cluster Rule --

For the degree programs below, the “outside the discipline” criterion is met differently.

Art Education - A certified course from either Education or Fine Arts Cluster can meet criterion.

Drama Education - A certified course from either Education or Fine Arts Cluster can meet criterion.

Dance Education - a certified course from either Education or Fine Arts Cluster can meet criterion.

Music Education - a certified course from either Education or Fine Arts Cluster can meet criterion.

Freshman English Requirement

All first-time-in-college students are required to take Freshman English (a sequential two-semester course of study) in accordance with the following conditions:

1. First-time-enrolled students (a) who do not intend to take the CLEP Freshman English Test or (b) who have been notified of failing CLEP prior to registration and who do not intend to attempt the exam a second time must take ENC 1101 and ENC 1102 sequentially. If a student fails the first course, he/she must repeat it before proceeding to the next Freshman English course. Students should normally take these courses during their freshman year, but these courses are high demand and it is possible that registration space will not always be available.

2. First-time-enrolled students (a) who have not taken CLEP prior to their arrival on campus or (b) who have failed but wish to repeat the test should attempt CLEP during their first nine (9) weeks. During this semester, they should not enroll in ENC 1101. If a student either fails or doesn't attempt the CLEP examination during his/her first nine (9) weeks, the student normally should take ENC 1101 in the following semester. In this case, the student will normally complete the sequence by the first semester of his/her sophomore year.
These policies do not apply to first-time-enrolled students who can meet the Freshman English requirement with credit transferred from another institution or those with AP English credit.

Credit by Examination
A student who feels he/she has already acquired the basic content of a course on his/her approved schedule should inquire about credit-by-examination. Some exams are offered through the College Level Examination Program (CLEP) and others may be offered within departments. Interested students should obtain additional information from their advisors or the Office of Evaluation and Testing.

Graduation Requirements
Baccalaureate Degree
University Requirements
University minimum requirements for graduation consist of the following: earn a minimum of 120 semester hours with an overall 2.00 GPA, including a 2.00 GPA in all courses attempted at USF; a transfer student must have a GPA of 2.0 or higher when combined with all work attempted at other institutions; satisfactorily complete CLAST and the writing and computation course requirements of 6A-10.30; earn a minimum of 40 semester hours of upper-level work (courses numbered 3000 and above); complete Liberal Arts requirements; complete residency requirement; complete program requirements as determined by the college; and be recommended for graduation by the dean of the appropriate college. The requirements must be met by every student upon whom a degree is conferred. The total number of semester hours needed to complete the baccalaureate degree depends upon the academic major field of study. No grades may be changed following graduation.

All students entering USF with fewer than 60 semester hours of credit are required to earn at least 9 semester hours of credit prior to graduation by attendance during one or more summer semesters. The University may waive the application of this rule in cases of unusual hardship to the individual. (See Summer Enrollment Requirement below.)

Summer Enrollment Requirement
As stated above, effective September 1, 1976, all students entering USF with fewer than 60 semester hours of credit are required to earn at least 9 semester hours of credit prior to graduation by attendance during one or more summer semesters. The University may waive the application of this rule in cases of unusual hardship. A student who wishes to have the rule waived must complete a "Request for Waiver of Mandatory Summer Enrollment Requirement" form available in the Office of the Registrar. After submission of the form to the Office of the Registrar, the student will be notified by mail of the action taken.

The requirement may be fulfilled only by attending one of the universities in the State University System. They are: University of South Florida, Tampa; Florida Agricultural and Mechanical University, Tallahassee; Florida Atlantic University, Boca Raton; Florida Gulf Coast University, Fort Myers; Florida International University, Miami; Florida State University, Tallahassee; University of Central Florida, Orlando; University of Florida, Gainesville; University of North Florida, Jacksonville; and University of West Florida, Pensacola.

Foreign Language
Graduation Requirement for B.A. Students
In addition to the foreign language entrance requirement (as required by FS 240.233) all students applying for a Bachelor of Arts degree from USF must demonstrate competency in a foreign language. To demonstrate this competency, students may take two semester courses of a beginning college-level foreign language or one semester of a higher-level course and earn a letter grade of "C" (no "S" grades) or above in the appropriate level course or demonstrate equivalent compe-
tency by passing an examination. Languages should be selected from among the ones listed below:

**Classical Languages**
- Greek (Ancient)
- Hebrew (Classical)
- Greek (New Testament)
- Latin

**Modern Languages**
- Arabic
- Hebrew (Modern)
- Portuguese
- Chinese
- Italian
- Russian
- French
- Japanese
- Spanish
- German
- Polish
- Yoruba
- Greek (Modern)

**American Sign Language**
Approval needed by the student's program/department major. The following programs accept Sign Language Competency for the exit requirement: Africana Studies, Anthropology, Communications, Criminal Justice, Gerontology, Mass Communications, Political Science, Theatre, Women's Studies, and all programs in the College of Education.

Students electing to take the examination in French, German, Italian, Portuguese, Russian, or Spanish should apply to the Director of the Division of Languages and Linguistics. Students taking the examination in Ancient or Modern Greek or in Latin should also apply to the Director of the Division of Languages and Linguistics. Students taking the examination in New Testament Greek or in Hebrew should apply to the Chairperson of Religious Studies. Students utilizing American Sign Language should apply to the Chairperson of Communication Sciences and Disorders.

Foreign Language Placement
Students with two or more years of study in a foreign language in high school, or with postsecondary course(s) in foreign language, or with experiential learning of a foreign language may not enroll for credit in courses in that language without first taking a placement examination administered by the Division of Languages and Linguistics. Should the placement examination indicate that remedial work is required (1120-1121), the student will be allowed to enroll with the understanding that the grade eventually earned will be either an "S" or "U."

Under no circumstances will a student who places above the first year level or who passes a higher-level course be allowed to register for or receive credit for a lower-level course in that specific language. Students to whom this regulation applies should inquire of the Division of Languages and Linguistics for the placement examination.

Academic Residence
Candidates for graduation must have completed at least 30 hours of the last 60 hours of their undergraduate credit in USF courses. The approval of the dean of the college granting their degree must be secured for any transfer credits offered for any part of these last 60 hours.

 Exceptions to the above rules are students who are enrolled at other universities on approved exchange programs, cooperative education students enrolled in other institutions (prior approval having been secured from their USF advisors) while on their training periods, and students taking correspondence work from the University of Florida. CLEP credit does not count toward academic residency.

Academic Major
USF offers curricula leading to the baccalaureate degree in the following fields. The degree is indicated in parentheses after each major code. For clarification, the following terms are defined:

Specialization: Those courses required to give the student academic concentration and baccalaureate identification such as Mathematics, Accounting, Psychology, etc.
Supporting or Related: These courses may be prerequisites to the specialization courses, or they may support specialized courses by giving preparation or breadth to...
the area of specialization. These courses are often referred to as college or program core courses.

Program Electives: These are usually a broad band of courses offered by the college offering the major to further enrich the student in the general academic field of the major.

College of Arts and Sciences:
Africana Studies (AFA) (B.A.)
American Studies (AMS) (B.A.)
Anthropology (ANT) (B.A.)
Biology (BIO) (B.S.)
Cell and Molecular (CAM) (B.S.)
Ecology (ECL) (B.S.)
Marine (MRN) (B.S.)
Physiology (PGY) (B.S.)
Chemistry (CHM) (B.A.)
Biochemistry/Biotechnology (CBY) (B.A.)
Environmental (CHV) (B.A.)
Health Professions (CHH) (B.A.)
Chemistry (CHS) (B.S.)
Environmental (CHV) (B.S.)
Classics (Classical Languages) (CLS) (B.A.)
Classics (Latin) (CLL) (B.A.)
Communication (SPE) (B.A.)
English (ENS) (B.A.)
Interpersonal & Organizational (SIO) (B.A.)
Performance (SPM) (B.A.)
Public & Cultural (SPL) (B.A.)
Theater (STA) (B.A.)
Criminology (CCJ) (B.A.)
Community Corrections (COC) (B.A.)
Juvenile Justice (JVJ) (B.A.)
Urban Law Enforcement (ULE) (B.A.)
Economics (ECO) (B.A.)
English (ENG) (B.A.)
Literature (LIT) (B.A.)
Creative Writing-Fiction (CWF) (B.A.)
Creative Writing-Poetry (CWP) (B.A.)
Professional-Technical Writing (CWT) (B.A.)
Environmental Science and Policy (ESP) (B.S.)
French (FRE) (B.A.)
Geography (GPY) (B.A.)
Environmental (EVG) (B.A.)
Urban and Social (USG) (B.A.)
Geology (GLY) (B.A.)
Geology (GLS) (B.S.)
Environmental (GLE) (B.S.)
German (GER) (B.A.)
Gerontology (GEY) (B.A.)
German (GES) (B.S.)
History (HTY) (B.A.)
Humanities (HUM) (B.A.)
Interdisciplinary Classics (ICL) (B.A.)
Interdisciplinary Natural Sciences (INS) (B.A.)
Biology (INB) (B.A.)
Chemistry (INC) (B.A.)
Clinical Laboratory Sciences (INL) (B.A.)
Environmental Science and Policy (INE) (B.A.)
Geology (ING) (B.A.)
Mathematics (INM) (B.A.)
Physics (INP) (B.A.)
Interdisciplinary Social Science (ISS) (B.A.)
American Sign Language (ISA) (B.A.)
Speech/Language/Hearing Science (ISH) (B.A.)
Urban Studies (ISU) (B.A.)
Interpreter Training (IST) (B.A.)
Interdisciplinary Studies (BIS) (B.I.S.)
International Studies (INT) (B.A.)
Italian (ITA) (B.A.)
Liberal Studies (ALA) (B.A.)
Mass Communications (COM) (B.A.)
Advertising (ADV) (B.A.)
Broadcast News (NWS) (B.A.)
Broadcast - Program & Production (PGM) (B.A.)
Journalism - Magazine (MAG) (B.A.)
Journalism - News Editorial (JOU) (B.A.)
Public Relations (PUR) (B.A.)
Mathematics (MTH) (B.A.)
Environmental Biology (MEB) (B.A.)
Environmental Chemistry (MEH) (B.A.)
Environmental Geology (MEY) (B.A.)
Mathematics - 5-year program (MBM)
Medical Technology (MET) (B.S.)
Microbiology (MIC) (B.S.)
Philosophy (PHI) (B.A.)
Physics (PHY) (B.A.)
Physics (PHS) (B.S.)
Political Science (POL) (B.A.)
Psychology (PSY) (B.A.)
Applied Behavior Analysis (ABA) (B.A.)
Religious Studies (REL) (B.A.)
Russian (RUS) (B.A.)
Social Work (SOC) (B.S.W.)
Sociology (SOC) (B.A.)
Spanish (SPA) (B.A.)
Women's Studies (WST) (B.A.)

College of Business Administration (B.A./B.S. option):
Accounting (ACC)
Business Economics (ECN)
Finance (FIN)
General Business Administration (GBA)
Management Information Systems (ISM)
Management (MAN)
Marketing (MKT)

College of Education (B.A./B.S. option):
Business and Office Education (BDE)
Distributive and Marketing Education (DEC)
Early Childhood Education (BEC)
Elementary Education (EEE)
English Education (BEN)
Foreign Language Education (FLE)
French (BFF) (B.A.)
German (BFG) (B.A.)
Italian (BFI) (B.A.)
Russian (BFR) (B.A.)
Spanish (BFS) (B.A.)
Industrial Arts-Technology Education (BIT)
Mathematics Education (BMA)
Physical Education (PET)
Elementary (BPE)
Secondary (BPS)
Wellness (BPW)
Science Education (SCE)
Biology (BSS)
Chemistry (BSC)
Physics (BSY)
Social Science Education (BSS)
Special Education
Behavior Disorders (BDD)
Mental Retardation (BMR)
Specific Learning Disabilities (BLD)
Varying Exceptionalities (5 yr. Program) (BVE)

College of Engineering:
Chemical Engineering (ECH) (B.S.C.H.)
Civil Engineering (EEC) (B.S.C.E.)
Environmental (ENV) (B.S.C.E.)
Computer Engineering (EC) (B.S.C.P.)
Computer Science (ECC) (B.S.C.S.)
Electrical Engineering (EEL) (B.S.E.E.)
Engineering, General (EGU) (B.S.E.)
Engineering Science (ECS) (B.S.E.S.)
Industrial Engineering (EIE) (B.S.I.E.)
Information Systems (EIS) (B.S.I.S.)
Mechanical Engineering (EME) (B.S.M.E.)
Academic Minor

In addition to major programs, many departments offer an academic minor that requires approximately one-half the upper-level credits required for a major. Students interested in a particular minor should obtain the specific requirements from the appropriate department. The department may require the same admission or retention standards as required for the major.

Each academic minor conforms to the University requirements:
1. A minimum of 8 semester hours of credit used to satisfy the requirements of a minor must be from USF courses.
2. A student desiring a minor must have a major in a different program option.
3. USF coursework for a minor must have a GPA of at least 2.0.
4. Only an undergraduate degree-seeking student at USF is eligible for a minor.
5. A minor can be applied for and received only in conjunction with applying for and receiving a baccalaureate degree except for students who have already received a baccalaureate degree from USF who may earn certification of a minor by taking additional undergraduate coursework at the University and applying for the certification.

USF offers curricula leading to an academic minor in the following fields:

College of Arts and Sciences:
- Africana Studies
- African Studies
- African-American Studies
- American Studies
- Anthropology
- Communication
- Criminology
- Economics
- English: Creative Writing
- English: English and American Literature
- English: Professional-Technical Writing
- French
- Geography
- Geology
- German
- Gerontology
- Greek
- History

College of Business Administration:
- Business Economics
- Finance
- General Business Administration
- International Business
- Management
- Management Information Systems

College of Fine Arts:
- Art
- Dance
- Music
- Theatre

Student's Choice of Catalog

In order to graduate from USF, each degree-seeking student must meet all of the graduation requirements specified in the USF catalog of his/her choice. A degree-seeking student may choose any USF catalog published during his/her continuous enrollment. Students who have transferred from one Florida public institution to another are affected by the following Board of Regents policy:

Graduation requirements in effect at the receiving SUS institution at the time a student enrolls at a Florida public institution of higher learning shall apply to that student in the same manner that graduation requirements apply to its native students provided the student has had continuous enrollment as defined in the SUS institution's catalog.

At USF, "continuous enrollment" is defined as enrolling as a degree seeking student at least one term each twelve month period. Therefore, students cannot choose a USF catalog published prior to or during an academic year in which they did not maintain continuous enrollment.

Each catalog is considered to be published during the academic year printed on the title page.

If the student cannot meet all of the graduation requirements specified in the catalog of his/her choice due to decisions and changes by the University in policy matter, course offering, etc., appropriate substitutions will be determined by the chairperson of the department or program of the student's major.

USF's policies are subject to change and apply to all students regardless of their choice of catalog. If the student's graduation requirements are affected by changes in University policies, appropriate arrangements will be made to preclude penalization of the student.

Repeat Course Work

The hours for a course which has been repeated may be counted only once toward the minimum 120 semester hours of credit required for graduation. (See Repeat Course Surcharges.)
Double Undergraduate Major

Students may elect to graduate with two majors. In that event, they must apply through the Office of Admissions and be assigned an advisor in each discipline. The student must meet all requirements of each major separately and must be certified for graduation by the appropriate dean(s).

Second Undergraduate Major

A student who wishes to work for a second major, after receipt of a baccalaureate degree, must apply through the Office of Admissions and meet the major requirements as determined by the college. (Exceptions to this rule are students who had been previously accepted for a "Double Undergraduate Major" but graduated with only one major.) After acceptance by the appropriate college and proof of completion, the student’s "permanent academic record" will be posted accordingly.*

Two Degrees (USF Students)

A student at USF may receive two baccalaureate degrees provided he/she meets University graduation requirements for both degrees. In addition to the minimum 120 semester hours that apply toward the first degree and include at least 60 semester hours of core- and major-level coursework, the student must also earn at least a minimum of 30 semester hours in on-campus USF undergraduate courses that will apply toward the second degree. The student must also meet the requirements of the college awarding the degree and the residency requirements.

Second Baccalaureate Degree (Transfer Students)

A student already graduated from an accredited four-year institution must earn a minimum of an additional 30 semester hours of USF undergraduate courses to apply toward his/her second baccalaureate degree. Students must also meet the University's regular graduation requirements, including the 9 semester hours of Exit Requirements, as well as the requirements of the college awarding the degree and the residency requirements.

Availability of a Baccalaureate Degree for Students Enrolled in or Graduated from a Five-year Master's Program

A student may enroll in a baccalaureate degree program while enrolled in or after graduation from a five-year master's degree program. In consultation with an advisor in the five-year program and an advisor in the baccalaureate-level program and with the approval of the college dean(s) offering the program(s), the student is required to complete the following:

a. Satisfy degree requirements for the five-year master's program.
b. Satisfy requirements for the baccalaureate-level program.

B.A. Degree for Medical and Dental Students

Students who are admitted to a medical or dental school after completing their junior year at USF may be awarded the B.A. degree in Interdisciplinary Natural Sciences from the College of Arts and Sciences (see College of Arts and Sciences).

Application for Graduation

In order to graduate, a student must submit an application for the bachelor's degree, graduate degree, or associate of arts certificate 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 the bachelor's degree is available from the student's college advising office. The application for a graduate degree is available from the Office of the Registrar or the student's college advising office. The application for an associate of arts degree is available from the Center for Academic Advising in Academic Support and Achievement.

The application must first be certified (signed or stamped in the section, "Office Use Only") by the student's college (Center for Academic Advising for the A.A. certificate). 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 or to the Center for Academic Advising in Academic Support and Achievement.

It is the student's responsibility to clear all "I" grades (incomplete) 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 term in which he/she expects to graduate.

A student applying for a second undergraduate major must do so within the same deadline set for applying for a degree. A student applying for a minor must:

1. File a separate request for certification for the minor in the department of the minor during the semester of graduation;
2. Apply for the minor on the "Application for Degree," listing both the minor and college responsible for the minor on the application; and
3. Have no "I" grade in required courses.

For purposes of honors recognition at the ceremony, students must have a 3.500 GPA before the term in which they plan to graduate to have honors recognized publicly at the commencement ceremony.

Honors at Graduation

To be considered for honors at graduation, a baccalaureate candidate must have completed at least 40 credits of graded coursework at USF and have earned a grade point average of 3.500 or higher for all graded coursework attempted at USF. In addition, to be eligible for honors, transfer students and USF students who have postsecondary work elsewhere must have an overall GPA of 3.500 or higher and all USF courses as well as all transferable work attempted at other institutions. The following policy at USF and other institutions and plus/minus forgiveness policy at USF or other institutions and plus/minus grades awarded at other institutions will not be applicable in computing the GPA for honors.

Candidates with a USF GPA of 3.500 or higher and an overall GPA of 3.500 but below 3.700 shall receive a diploma designation of cum laude (with honor).

Candidates with a USF GPA of 3.500 or higher and an overall GPA of 3.700 but below 3.900 shall receive a diploma designation of magna cum laude (with high honor).

Candidates with a USF GPA of 3.500 or higher and an overall GPA of 3.900 or above shall receive a diploma designation of summa cum laude (with highest honor).

In addition, each dean has the option to select on the basis of exceptional achievement 1% of the college's graduates or 1 student per semester for graduating with distinction.

NOTE: The GPA is not rounded up when determining honors at graduation (e.g., 3.699 is not the same as 3.700).

Commencement

Commencement ceremonies at USF (Tampa) are held three times a year: Fall, Spring, and Summer.

To receive information regarding the Commencement ceremonies, students must submit an application to graduate. Information regarding the ceremony will be mailed to the students during the term in which they should participate. If information is not received, the student should contact the
Office of the Registrar. Graduate students (masters, specialization, doctorates) will not participate in commencement exercises until all requirements for such degrees have been fulfilled.

Certificate Requirements
Associate of Arts

Upon the student’s successful completion of the minimum requirements for the Associate of Arts Certificate, the University will present the student who has properly made application with an appropriate certificate.

1. To receive the Associate of Arts, the student must complete 60 semester hours of university credit; at least twenty of the last thirty semester hours must be completed in residence at USF; the minimum grade point average must be 2.0 based on work attempted at the USF; in addition, a transfer student must have a GPA of 2.0 or higher when combined with transfer work accepted and evaluated by the USF Office of Admissions; and the General Education Requirements of USF must be satisfied. Physical Education and military science credits do not count within the 60 semester hours toward the Associate of Arts. In addition the student must pass the College-Level Academic Skills Test and fulfill the writing and computation course requirements of 6A-10.030 prior to receiving the Associate of Arts Certificate.

2. Application Procedure for the Associate of Arts Certificate. The Application for an Associate of Arts Certificate can be obtained from the Center for Academic Advising or the Office of the Registrar. The deadline to apply for a degree/certificate in each semester is stated in the Academic Calendar in the catalog.

3. The Associate of Arts certificate must be awarded prior to the term that the student becomes eligible for the baccalaureate degree.

4. Final processing for the Associate of Arts will be done after grades are processed at the end of the semester for which the student applied. All work, including transfer work, taken in that semester will be evaluated with respect to the requirements for the Associate of Arts Certificate.

5. Any incomplete grades shown on the permanent record of an Associate of Arts applicant at the time grades are processed will be treated as an F in the calculation of grade point average.

6. The General Education Requirements will be based on the approved University policy in effect in the catalog year the student chooses according to the University policy regarding the choice of catalog. The consideration of whether or not General Education Requirements met will be made without consideration of the student’s choice of major at the time he/she applies.

7. Residence credit will be broadly defined to include USF sponsored student exchange programs and the University of Florida Correspondence Division. Where the grades from these institutions, except those earned through the University of Florida Correspondence Division, are recorded on the permanent record at USF, and included in the grade point average calculation, they will also be counted in the student’s grade point average as work attempted at USF for the Associate of Arts Certificate.

8. An applicant who has not been enrolled at USF for three semesters may be contacted to ascertain whether or not that applicant meets the residency requirements.

9. In approving any application for the Associate of Arts Certificate, satisfactory/unsatisfactory grades will be accepted according to the approved University policy in effect during the student’s enrollment. The student’s declared major. Students must be aware that if they have taken any courses on a satisfactory/unsatisfactory basis where such grades are not acceptable by the college of the major, the students may be required to repeat particular courses for a traditional letter grade or take additional courses for a traditional letter grade to meet the college requirements.

10. All USF colleges with undergraduate programs will accept the Associate of Arts from USF. That is, the student will be placed at least, at the junior level and will be considered to have met the University’s General Education Requirements. The applicability of the courses taken by the student toward his/her major program will be determined by the college of the student’s major. Similarly, any special requirements for a student’s professional certification (e.g., Education and Engineering) are not necessarily met by the Associate of Arts certificate, but could be included as part of the General Education Requirements. Thus, students should check with their colleges concerning meeting any special requirements in an efficient manner.

11. The awarding of the Associate of Arts is posted on the permanent record but does not alter the calculation of the grade point average nor does it interrupt the accumulation of the student’s record.

12. Students who follow a baccalaureate degree program as recommended by a college will not necessarily be eligible for the Associate of Arts certificate prior to the completion of 90 semester hours.

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. 226.053 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
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:

University Registrar or USF Agency Clerk
SVC 1034
4202 Fowler Avenue
4202 Fowler Avenue - ADM 254
Tampa, Florida 33620
Tampa, Florida 33620

Release of Student Information

Pursuant to requirements of the Family Educational Rights and Privacy Act (FERPA), the following types of information, unless forbidden 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.
**ACADEMIC PROGRAMS AND SERVICES**

**UNIVERSITY OF SOUTH FLORIDA - 1999/2000 UNDERGRADUATE CATALOG**

### Special Academic Programs

**USF/Florida Public Community College Cross Enrollment**

Some undergraduate students may find it advantageous to cross enroll at a Florida public community college while attending USF. Procedures to permit this type of registration are available during specified times printed in the University *Schedule of Classes*. Credit hours for the course(s) taken at the host institution will apply toward graduation only if prior approval was received from the student's USF advisor. The grade point average will not transfer to USF. See a USF college advisor for detailed registration instructions and course approval.

### Transient Students

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. The transient student/cross enrollment form should be used for this purpose.

### College Level Examination Program (CLEP)

USF allows students to receive up to 45 semester hours of credit towards the baccalaureate degree upon successful completion of General and Subject College Level Examination Program (CLEP) and DANTES examinations. Performance levels necessary to achieve credit have been established at a common level for all universities and community colleges in the State system. Credit earned through one examination program may not be duplicated by another examination or course. The following limitations should be recognized:

1) Although the General Examinations are not equated to specific courses, there are two cases in which the content is sufficiently similar to be considered as duplicate credit. Thus credit may not be received for both in the following:

- Test: English Composition with Essay
- Courses: ENC1101 & ENC 1102
- Mathematics: MAC2102 & MGF 2202

2) Credit earned for the Freshman English courses through the CLEP program does not count toward the twelve hour writing requirement for SBE Rule 6A-10.030 ("Gordon Rule");

3) CLEP General/Subject Examinations in mathematics, calculus, college algebra, trigonometry satisfy the mathematics requirements for SBE 6A-10.030;

4) CLEP credit will not satisfy USF's residency requirement;

5) Credit for the General Natural Science examination will be granted for non-majors only; and

6) Each College at USF has the prerogative to exclude CLEP from the required 40 hours of upper level credit.

Certain General and Subject CLEP Examinations noted in the table below may apply to the General Education Liberal Arts Requirements. Some programs do not award credit toward the degree for certain CLEP examinations, and certain graduate or professional schools such as law, medicine and engineering may not grant equal recognition to students with extensive examination credits. An academic advisor should be consulted to ascertain the applicability of a specific CLEP examination toward a student’s degree requirements and the advisability of taking the examinations in a student’s specific situation. Descriptions of the examination content and other information are available from Educational Testing Service in Princeton, New Jersey or in the Office of Evaluation & Testing (SVC 2054).

### Advanced Placement Credit Program

USF participates in the Advanced Placement Program conducted by the College Entrance Examination Board. Examination papers are graded by selected committees on a five-point scale. The University allows advanced placement credit for scores of 3, 4 or 5. No credit is allowed for scores of 1 or 2. Additional information is available in the Office of Evaluation and Testing.

#### AP Tests and Their Course Equivalents at USF

<table>
<thead>
<tr>
<th>AP Exam</th>
<th>USF Equivalent</th>
<th>Cr. Hrs.</th>
<th>Qual. Score</th>
</tr>
</thead>
<tbody>
<tr>
<td>Biology</td>
<td>BSC 2010, 2010L</td>
<td>4</td>
<td>3</td>
</tr>
<tr>
<td>Biology</td>
<td>BSC 2010, 2010L</td>
<td>8</td>
<td>4 or 5</td>
</tr>
<tr>
<td>Computer Sci. A</td>
<td>CGS 2000</td>
<td>3</td>
<td>4</td>
</tr>
<tr>
<td>Computer Sci. AB</td>
<td>COP 2000</td>
<td>3</td>
<td>4</td>
</tr>
<tr>
<td>English Language &amp; Composition</td>
<td>ENC 1101, 1102</td>
<td>6*</td>
<td>4 or 5</td>
</tr>
<tr>
<td>English Literature &amp; Composition</td>
<td>ENC 1101</td>
<td>3</td>
<td>3</td>
</tr>
<tr>
<td>English Literature &amp; Composition</td>
<td>ENC 1101, 1102</td>
<td>6*</td>
<td>4 or 5</td>
</tr>
<tr>
<td>French Language</td>
<td>FRE 2200</td>
<td>3</td>
<td>3, 4, or 5</td>
</tr>
<tr>
<td>French Language</td>
<td>FRE 2200, 2201</td>
<td>6*</td>
<td>4 or 5</td>
</tr>
<tr>
<td>French Literature</td>
<td>FRE 3230</td>
<td>3</td>
<td>3, 4, or 5</td>
</tr>
<tr>
<td>German Language</td>
<td>GER 2200</td>
<td>3</td>
<td>3</td>
</tr>
<tr>
<td>German Language</td>
<td>GER 2200, 2201</td>
<td>6*</td>
<td>4 or 5</td>
</tr>
<tr>
<td>German Literature</td>
<td>GEW 4930</td>
<td>3</td>
<td>3, 4, or 5</td>
</tr>
<tr>
<td>Government &amp; Politics-U.S.</td>
<td>POS 2041</td>
<td>3</td>
<td>4 or 5</td>
</tr>
<tr>
<td>Government &amp; Politics-Comp.</td>
<td>CPO 2002</td>
<td>3</td>
<td>4 or 5</td>
</tr>
<tr>
<td>U.S. History</td>
<td>AMH 2010</td>
<td>3</td>
<td>3</td>
</tr>
<tr>
<td>U.S. History</td>
<td>AMH 2010, 2020</td>
<td>6</td>
<td>4 or 5</td>
</tr>
</tbody>
</table>

**NOTE:** Credit is awarded for scores above the fifth percentile. For information regarding discontinued exams not listed, contact Evaluation & Testing at 974-5298.

**Essays may be required for the subject examinations. Please consult with Evaluation & Testing at SVC 2054-974-2742.**

**Applicable toward the Liberal Arts Requirement.**

### CLEP Subject Area Examinations

<table>
<thead>
<tr>
<th>Examination</th>
<th>USF Course(s)</th>
<th>Cr. Hrs.</th>
<th>Qual. Score</th>
</tr>
</thead>
<tbody>
<tr>
<td>History</td>
<td>American Govt.</td>
<td>POS 2041</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>U.S. Hist. I**</td>
<td>AMH 2010</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>U.S. Hist. II**</td>
<td>AMH 2020</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>West. Civ. I**</td>
<td>EUH2030</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>West. Civ. II**</td>
<td>EUH2031</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>English</td>
<td>AML 3031, 3032</td>
<td>6</td>
</tr>
<tr>
<td></td>
<td>Anal. &amp; Interp.</td>
<td>LIT 2000, 2010</td>
<td>6</td>
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<tr>
<td></td>
<td>Eng. Lit.</td>
<td>ENL 3273</td>
<td>3</td>
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<tr>
<td></td>
<td>Firmn. Coll. Comp. **</td>
<td>ENC 1101, 1102</td>
<td>6</td>
</tr>
<tr>
<td></td>
<td>Business</td>
<td>CGS 2100</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Info. Sys.</td>
<td>BSC 2010, 2011</td>
<td>6</td>
</tr>
<tr>
<td></td>
<td>Comp. Apps.</td>
<td>CHM 2045, 2046</td>
<td>6</td>
</tr>
<tr>
<td></td>
<td>Princ. Acctg.</td>
<td>ACG 2021, 2071</td>
<td>6</td>
</tr>
<tr>
<td></td>
<td>Intro. Bus. Law</td>
<td>BUL 3320</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Princ. Man.</td>
<td>MAN 3025</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Princ. Macroec.</td>
<td>ECO 2013</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Princ. Microec.</td>
<td>ECO 2023</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Princ. Mkt.</td>
<td>MAR 3023</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Natural Sciences</td>
<td>BSC 2010, 2011</td>
<td>6</td>
</tr>
<tr>
<td></td>
<td>Gen. Chem.</td>
<td>CHM 2045, 2046</td>
<td>6</td>
</tr>
<tr>
<td></td>
<td>Calc./Elem. Fn.**</td>
<td>MAC 2233</td>
<td>4</td>
</tr>
<tr>
<td></td>
<td>Coll. Alg.**</td>
<td>MAC 2102</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Coll. Alg./Trig.**</td>
<td>MAC 2132</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Trigonometry**</td>
<td>MAC 2114</td>
<td>2</td>
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<td></td>
<td>Intro. Edu. Psych.</td>
<td>Elective</td>
<td>3</td>
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<td></td>
<td>Intro. Psych.**</td>
<td>PSY 2012</td>
<td>3</td>
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<tr>
<td></td>
<td>Hum. Gr. &amp; Dev.**</td>
<td>DEP 3103</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Intro. Soc.**</td>
<td>SYG 2000</td>
<td>3</td>
</tr>
</tbody>
</table>
NOTES

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European History EUH 2030 3 or 5
European History EUH 2030, 2031 4 or 5
History of Art ARH 2050 3 or 5
History of Art ARH 2051 3 or 5
Studio Art General ART 2201C 3, 3, 4, or 5
Portfolio Studio Art Drawing ART 2301C 3, 3, 4, or 5
Portfolio Latin (Vergil) LNW 2660 4 or 5
Latin (Catullus-Horace) LNW 4634 4 or 5
Math - Cal AB MAC 2311 3, 4, or 5
Math - Cal BC MAC 2311, 2312 3, 4, or 5
Microeconomics ECO 2013 3 or 5
Microeconomics ECO 2023 3 or 5
Music (Theo) MUT 1111, 1241 3 or 5
Psychology PSY 2012 3 or 5
Physics B PHY 2053, 2054 6 or 5
Physics C PHY 2048, 2049 6 or 5
Physics C PHY elective 3 or 5
Physics C PHY elective 3 or 5
Spanish Language SPN 2200 3 or 5
Spanish Language SPN 2200, 2201 3 or 5
Spanish Literature SPW 3030 3 or 5
Statistics STA 2202 3 or 5

*Credit varies according to score.
+Laboratory credit is not included. Lab credit may be granted after specific information concerning secondary school lab program is provided.
++Plus satisfactory grade on USF Department of Physics test covering thermodynamics, wave motion and optics.
+++Plus satisfactory portfolio review.
****Pending results of Music Theory Placement Test.

Independent Study

Undergraduate students wishing to take a course by independent study must contact the instructor of the course for permission. The instructor specifies the requirements to be completed by the student including tests, periodic class attendance, term papers, etc.

Not all courses in the University may be taken by independent study. The respective colleges have jurisdiction in the determination of which courses may be taken in this manner.

The regular grading system applies to all independent study students. Grades earned by independent study have the same status as those acquired through regular class attendance. Students taking a course by independent study must register for the specific course section in the regular manner.

College Reach-Out Program

College Reach-Out is an academic program designed for low-income and educationally disadvantaged junior and senior high school students, who have the academic potential for success in a postsecondary institution, and plan to pursue an education beyond high school.

The focus of the program is to prepare students to meet higher education requirements established for admission to colleges and universities. Tutoring services are provided to enhance students' academic skills.

The program is structured to provide counseling in personal, social, academic, educational, career opportunities, and a summer enrichment program. Admission requirements are listed:
1. Family income must meet federal and state guidelines.
2. Students must have completed the 8th grade.
3. Students must have a 2.0 grade average in English, mathematics, history, and science.
4. Students must attend schools in Hillsborough County.

Applications should be forwarded to the College Reach-Out Program, HMS 497 or 499, USF. Information may be obtained by calling (813) 974-3713.

Enrollment in Evening Courses

Evening courses at USF are part of the regular academic program; they are offered at times convenient to people within commuting distance who wish to continue their education at night while occupied during the day with other responsibilities. Requirements for day and evening courses are the same. See the University Class Schedule for evening registration dates and times.

Community Experiential Learning Program

The Community Experiential Learning (CEL) Program offers students the opportunity to explore the relationship between their classroom learning and the broader community. With faculty guidance, students design their own community experiences and receive between one and four academic credit(s) upon completion. Students may choose to work as an intern with a community organization/agency or to explore a community issue through independent research. The community can be as close as a neighborhood just beyond the campus or on the other side of the world.

Students may participate in the CEL Program anytime during their academic career. Good standing at the University and a 2.0 GPA is required for acceptance into the Program. CEL courses are offered throughout the entire year. Ideally students should plan their CEL projects during the term prior to their implementation, but they can be added at any time during the term.

State University System, External Degree Program

Bachelor of Independent Studies (BIS)

The Bachelor of Independent Studies Program is available through participating state universities in Florida. The universities currently involved are the Florida International University, Florida State University, the University of Florida, the University of North Florida, and the University of South Florida.

Founded in 1966, the external degree program is for adults who find it difficult to attend regular university classes because of career or family commitments. The BIS student proceeds at his/her own pace and, for the most part, in his/her own setting. The exception is the summer seminars which require periodic, short-term campus residence.

The administration office for the Program is located on USF's Tampa Campus. For detailed information, see the College of Arts and Sciences.

State University System Correspondence Courses

The University of Florida's Department of Independent Study by Correspondence administers all correspondence instruction for Florida's State University System (SUS).

Over 150 college credit, high school credit and continuing professional education courses are available anytime, anywhere through regular mail or fax. In many cases, students also have the option to e-mail their assignments to the instructor.

Enrollment in all courses is possible at any time of the year; however, prior approval of an advisor is needed if a course is to be used toward a diploma or a degree.

For a FREE brochure, please contact: Department of Independent Study, 2209 NW 13th Street, Suite D, Gainesville, FL 32609-3498; (352) 392-1711, ext. 200; or e-mail: Learn@nervm.ncf.edu. Be sure to check out the home page: http://www.doe.ufl.edu/indstudy

USF considers independent study by correspondence as resident credit. Grades are not transferable. Exceptions: grades for courses taken by Cooperative Education students while on a training period are transferred and will be used in computing the USF GPA.

Upward Bound

Upward Bound is a pre-college program for students from low-income families who have academic potential, but who have inadequate secondary school preparation or have not achieved success in school.
Its purposes are to assist these students in developing goals and academic skills, and to provide the motivation necessary to obtain entrance and achieve success in a college or post-secondary program. To qualify, the applicant must meet the following criteria:

1. Family income must meet federal guidelines.
2. Applicant should be a potential first-generation college student.
3. Student must have completed the 9th grade and presently be enrolled in the 10th or 11th grade in an accredited high school.
4. GPA must be 2.0 ("C") or above in basic pre-college courses.
5. Attend weekly scheduled tutorial sessions.
6. Attend six-week summer residential component on the USF Tampa Campus.

Applications should be forwarded to Director, Project Upward Bound, USF.

**International Student Exchange Program (ISEP)**

USF maintains cooperating programs for the exchange of undergraduate students with various universities in England, France, Scotland, Australia, Israel, Japan, Korea, Russia and Mexico. These exchanges are provided through the International Student Exchange Program (ISEP). Because new schools are continuously added to the ISEP, an updated listing of exchange universities is available from the ISEP office.

It is much less expensive to attend a foreign university on exchange than it would be on one’s own. Costs approximate those at USF. Decisions about covered charges and services are based upon cooperating contractual agreements. There is a deposit of $250.00 for international exchange, which is refunded only if a qualified applicant cannot be placed. While on exchange, students are considered to be enrolled full-time for all purposes including financial aid. Duration of exchange can be a full year or one semester depending on the specific exchange agreement.

A minimum 2.5 (3.0 for some institutions) cumulative GPA is required for exchange. It is recommended, though not required, that students exchange during the sophomore or junior years. Courses taken while on exchange are accepted and entered into the USF record (transcript) and grades earned on exchange are merged into the USF GPA.

While there is no absolute application deadline, students who wish to exchange in the Fall are advised to apply by March 1. Students wishing to exchange in the Spring are advised to apply by September 15. The number of placements is limited, so early application is desirable. The date of application (as well as year in college, scholastic record, etc.) carries considerable weight in situations where demand exceeds supply. The ISEP office maintains a library of materials about the universities cooperating with USF.

**Study Abroad Programs**

USF students are eligible, if they meet the specific academic requirements, for enrollment in a wide variety of study abroad programs sponsored by the SUS of Florida as well as by many other U.S. colleges and universities, national educational organizations, and foreign institutions of higher learning.

* The following overseas study programs are administered by USF in cooperation with the Overseas Study Programs Office of the International Affairs Center (located in CPR 468).
  * A semester or six-week summer study program in Prague, Czech Republic, offered in conjunction with the Anglo-American College.
  * One, two, three months or longer programs in Paris, Tours, and in Aix-en-Provence or Avignon, France. An intensive program in French culture is offered in June or July, which combines lectures, on-site visits and day-long excursions.
  * A four-week summer program of Italian language and culture located at Perugia, Italy in conjunction with the Italian University for Foreigners.

A four-week summer program of study of Spanish language and culture centered in Madrid, Spain, with a study tour to Barcelona or Andalucia.

* A year-round program in San Jose, Costa Rica in collaboration with the Forester International Institute. This flexible program of Spanish study offers intensive courses from two weeks to three months.

* A summer program in Mexico offered in collaboration with the University of the Americas in Cholula, Mexico. It provides participants with an opportunity to study Spanish language, Mexican culture and to visit many archeological sites.

* A summer program in photography or art history conducted in Paris, France. (Class alternates each year.)

* A three-week to eight-week summer program in German language and culture in Berlin.

* A six-week summer program in Russian language and culture in Moscow, Russia.

* A two, three, or four-week international summer school program at Cambridge University in England.

* And approximately 3 dozen semester and summer academic programs in more than 25 countries available through USF’s membership in the College Consortium for International Studies (CCIS).

New study abroad opportunities are added each year. In addition to residential programs, USF offers a variety of short-term study-tour programs managed by the Overseas Study Programs Office (CPR 468). These programs include classroom study on the Tampa campus prior to the travel segment. Recent programs have focused on Africa, the Caribbean, South America, France, Germany, Ireland, and Tahiti/Moorea.

The programs described in this section are approved study-abroad programs and all carry USF credits.

The University of South Florida also offers reciprocal exchange programs for students in the following countries: Australia, Brazil, China, Costa Rica, England (10 universities), Estonia, France (6 universities), Israel, Italy, Japan, Korea, Mexico (4 universities), the Netherlands, Russia, Scotland, Spain, Sweden, Venezuela, and Wales.

A sampling of residential or study-travel programs offered by other universities in the SUS follows:

* Administered by Florida A & M University: study and exchange programs to Haiti, Jamaica and Sri Lanka.

* Administered by Florida Atlantic University: study and exchange programs to Australia, China, Denmark, Finland, Lithuania, Portugal and Russia.

* Administered by Florida International University: study and exchange programs to the Bahamas, the Czech Republic, France, Germany, Mexico, and Sweden.

* Administered by Florida State University: study and exchange programs to Australia, Barbados, Costa Rica, Eastern Europe, Italy, Korea, Switzerland, and England.

* Administered by the University of Central Florida: study and exchange programs to Austria, Canada, Chile, China, Korea, Russia and Switzerland.

* Administered by the University of Florida: study and exchange programs to Austria, Canada, Chile, China, Korea, Russia and Switzerland.

* Administered by the University of Florida: study and exchange programs to Denmark, England, Finland, Germany, Greece, Italy, Japan, Mexico, Sweden, Taiwan and Venezuela.

* Administered by the University of North Florida: study and exchange programs to the Czech Republic, England, France and Ireland.

* Administered by the University of West Florida: study and exchange programs to Austria, Canada, Costa Rica, Germany, Israel, Japan, Norway and Taiwan.

* Students who plan to participate in study abroad programs should consult their departmental advisors to determine whether the course of study they plan to pursue will be acceptable for meeting degree requirements.

Information about these and other programs, as well as advising on study abroad, may be obtained from the Overseas Study Programs Office in CPR 468, 974-4314; e-mail: jhale@iac.usf.edu.
International Student and Scholar Services (ISSS)

The University welcomes qualified students from other countries to live and learn on campus. This international exchange leads to the enrichment of life, intellectual development, research and understanding, and exposes students, faculty and staff to cultural and national differences in outlook, experience, and ideas.

ISSS at USF (located in the Phyllis Marshall Center) is the main administrative and counseling office for approximately 1200 international students at the university. The ISSS has four main functions: 1) Administrative: the ISSS has many administrative duties including the issuance and maintenance of visa documentation for international students on campus, as well as monitoring health insurance for internationals; 2) Counseling: the staff of the ISSS is trained and experienced in cross-cultural counseling and is able to advise students in the areas of immigration, adjustment to life in the U.S., as well as personal and academic issues; 3) Programming: the ISSS develops and implements programs designed to assist international students in their adjustment to life at USF, and the programs include orientation, tax seminars, immigration workshops, and cultural programs; and 4) Community Service: the ISSS is the focal point of community service activity related to assisting international students and scholars, for example the Conversational English Program and the American Mentors Program.

ISSS services also include letters of enrollment and expenses, insurance advising, and numerous social activities (parties, cultural events, International Festival). The ISSS has written information concerning Tampa area activities, transportation and housing, tourist attractions, and Florida driver’s licenses.

Florida College Exchange Program

Through an exchange agreement, students of USF, with the approval of their advisors, may elect courses at nearby Florida College. Credit for acceptable work may be transferred to USF and counted as elective credit toward graduation. Students from Florida College have a similar transfer arrangement.

Costs for students under these cross enrollment plans are based on credit hours of work taken, and payment is made to the appropriate institution in accordance with its per-hour fee rate.

Florida College students enjoy full privileges of the statewide articulation agreement and of USF transfer student policies, such as academic salvage and full acceptance of the Associate of Arts degree.

Washington, D.C. Internship Program

All USF undergraduates seeking to live and learn in the nation’s capital are eligible to apply for the Washington, D.C. Internship Program. Students participate in either the fall, spring or summer semesters and can earn course credit. Study in Washington, D.C. consists of two major components: (1) working 35 hours per week at your selected internship and, (2) taking one seminar which meets once per week. Opportunities for internships are not limited to government positions, but include a vast array of non-profit and for-profit options.

In conjunction with the Washington Center located in Washington, D.C., students are housed in a conveniently located apartment complex within walking distance to public transportation and Metro. The Washington Center also provides a student lecture series and a number of special events (e.g., breakfast with Members of Congress, cultural events at the Kennedy Center). The costs of the program vary depending upon your date of attendance. Generous scholarships are available.

Applications for the program can be obtained in the Department of Government and International Affairs, SOC 352. For details on the USF Washington, D.C. Internship Program, please contact Dr. Kathryn Dunn Tenpas, Faculty Liaison for the Washington, D.C. Internship Program, 4202 East Fowler Avenue, SOC 107, Tampa, FL 33620-8100 or call 813-974-0830.

Academic Services and Support

EDUCATIONAL OUTREACH

Educational Outreach extends the University’s academic resources to enable students constrained by time and/or place to meet their educational goals; to promote workforce and economic development through customized training; and to support lifelong learners’ personal and professional growth. More than 25,000 people enroll in the credit and non-credit offerings provided through a variety of delivery systems, formats, and scheduling options through USF’s four campuses and at a variety of off-campus locations, including community colleges, public schools, community centers, libraries and a network of corporate and governmental affiliates. Asynchronous learning models use established technology, such as televisions, VCR’s, and computers supported by internet networks and emerging wireless digital applications to enable individuals to take courses in their homes and workplaces, at times that fit their personal schedules. Visit our web site at http://www.outreach.usf.edu for more information.

Educational Outreach supports the teaching and learning process for distance, off-campus and residential instruction. Services are organized around four primary areas of support: faculty, students, courses, and classrooms.

Distance Learning Faculty Support helps faculty incorporate a range of instructional technologies to enhance the learning experience of the students. This support involves course production and development assistance for web-based instruction, videoconferencing, two-way video/audio courses, telecourses, videotapes, and one-way video/two-way audio studio classroom instruction. These applications of technology expand access for students constrained by time and/or place.

Educational Outreach provides additional faculty support through its participation in USF’s Teaching, Learning and Technology Roundtable (TLTR) and VITAL (Virtual Instructional Team for the Advancement of Learning). For more information call (813) 974-7984 or visit our website at http://www.outreach.usf.edu.

Distance Learning Student Support distributes materials to students at off-campus locations, serves as a central information and referral point for distance and off-campus courses, publishes a supplemental schedule each semester of distance and off-campus classes, and maintains a viewing area for telecourses and other offerings with taped sessions for students’ review. Students enrolled in telecourses, teleweb courses (television-based courses with web components), and other offerings (previously referred to as Open University) can access copies of all course syllabi, call a 24-hour hotline for information about test and review session dates and syllabus changes (813/974-3063), and with the instructor’s permission, arrange for make-up exams. Students in certain statewide programs and off-campus courses (formerly PACE) register and pay for their courses directly through this office. Complete details about courses supported in this manner are included in the schedule of classes.

Remote learners are supported through institutional efforts, as well as statewide systems, including the Florida Distance Learner Reference and Referral Center housed at USF; the Virtual Library, with access to web-based resources and an electronic reserve system; and Academic Computing’s provisions for e-mail and computing accounts. Students have easy access to information about USF’s distance and off-campus learning opportunities and support services through a special publication available each semester (ACCESS USF: Distance and Off-Campus Learning). To request a catalog or more information, please call (813) 974-2996, send e-mail to: distance@outreach.usf.edu, or visit our web site at http://www.outreach.usf.edu.

Distance Learning Course Support provides access to USF’s network center and distance learning infrastructure. For more than 30 years, WUSF-TV (USF’s public television station)
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and local/regional cable partners have broadcast telecourses, both PBS and locally-produced lecture series, on a variety of subjects. Telecourses, web-based instruction, and the mixed model of teleweb courses demonstrate distance learning’s “any time, any place” opportunities to fit the schedules and educational goals of our students. All four USF campuses have newly installed videoconferencing classrooms, supporting fully interactive classes and facilitating active, collaborative learning in a distributed environment. In conjunction with VITAL, organizational partners, Educational Outreach provides faculty support for design, development, and production of courses using computer applications, videoconferencing, multimedia enhancements, Instructional Television Fixed Services (ITFS) network, broadcast video systems, and satellite uplink/down-link capabilities.

Technology in the Classroom Support provides access to standard and state-of-the-art classroom technology through delivery, set-up, maintenance, and over-the-counter check-out of equipment for faculty and classroom use. This comprehensive service model includes traditional classroom equipment, such as overhead projectors and VCR’s and more recent additions, including computer projectors, “smart” boards, and digital cameras. Integrated technology systems are being installed in high use classrooms, enhancing the learning environment and facilitating the use of multimedia and technology enhancements in the teaching and learning process. Specially equipped distance learning classrooms have been expanded to include fully interactive videoconferencing environments at all four USF campuses. These new capabilities also enhance USF’s K-12, community college, civic, and corporate partnerships by expanding educational opportunities throughout the 10-county service region, and beyond.

Off-Campus Opportunities

A wide range of credit courses are offered at off-campus locations, including community colleges, public schools, libraries, and community-based or corporate sites. These courses serve the unique needs of non-traditional students with busy schedules, by making courses available in locations convenient to their homes and workplaces. Concentrated “live” classes offered in intensive formats and an impressive array of evening and weekend classes complement the more traditional schedules of semester-based courses and provide a convenient alternative to distributed learning opportunities for students who prefer group-based models. Organizations and businesses may contract with USF to offer courses on-site. All courses offered in an off-campus location are standard USF courses listed in the Undergraduate or Graduate catalogs and are taught by USF faculty. Students in these programs must meet all USF admissions, academic standing, and graduation requirements. In certain programs, registration and fee payments are made directly to Educational Outreach, and may be made via VISA or MasterCard. Specific details are included each semester in the schedule of distance and off-campus learning classes, or may be obtained by calling (813) 974-2996 or sending an e-mail to distance@outreach.usf.edu.

USF’s Initiative at Pasco-Hernando Community College

As part of USF’s commitment to expand educational opportunities throughout the region, a new initiative was established during the 1998-99 academic year. Selected degree programs are now offered at PHCC, or other locations in Pasco and Hernando counties, providing more options for students. Undergraduate programs offered are: Interdisciplinary Social Science (B.A.), Nursing (R.N. to B.S.N.), and General Business (B.A.). Graduate programs offered are: Library and Information Science (M.A.) and Educational Leadership (Ed.D.). Courses are offered in-person and via distance technologies. As with all off-campus credit opportunities, students in these programs must meet all USF admission, academic standing, and graduation requirements. Call (813) 974-2996 or visit the web site at http://www.usf.edu/news/pasco.htm for general information or to request a flyer describing USF’s Pasco-Hernando Initiative; or contact Adult and Transfer Student Services (813) 974-6444; Undergraduate Admissions (813) 974-3350; or Graduate Admissions (813) 974-8800 for more specific information about admission and transfer policies. Academic advising is provided by each of the colleges offering degree programs as part of this off-campus initiative.

Distributed Learning Opportunities

For more than 30 years, WUSF-TV (USF’s public television station) and local/regional cable outlets, including the Tampa Education Channel and Manatee Educational Television, have broadcast telecourses on a variety of subjects. Supported by Educational Outreach, these courses are available to students at all four USF campuses (Tampa, Lakeland, St. Petersburg and Sarasota) and their surrounding areas. Courses have on-campus sessions or web-based modules for orientation, reviews and student interaction components. Some courses can be used to fulfill liberal arts and/or major requirements and can be used as elective credit for many degree programs. Students should check with their advisors concerning any questions about the applicability of specific courses to their degree programs. Students enrolled in telecourses are allowed to tape the programs during broadcasts, but may review episodes and taped review sessions in the student viewing area provided by Educational Outreach, in SVC 1072. In lieu of watching the courses on television, students may secure tapes from RML Telecourse Rental for most courses (1-800-745-5480).

Course syllabi are available approximately one week before the start of each semester and may be picked up at SVC 1072. Office hours are 8:00am-7:00pm M-F; however, syllabi are available outside the office and can be picked up later at night and during weekends, whether or not the office is open at the time. Syllabi are also available on the web site at http://www.outreach.usf.edu.

In addition to the telecourses and teleweb opportunities available, USF supports “any time, any place” learning for students by a variety of courses offered entirely through internet and web applications. These on-line courses range from individual offerings that can be used as electives in various majors, to sequences of courses qualifying students for teacher certification or endorsement, such as the ESOL offerings meeting Florida’s requirements for teachers of English as a second language. Courses are added each semester to USF’s on-line listings, and are included in the schedule of distance and off-campus courses published by Educational Outreach. Visit our web site at http://www.outreach.usf.edu for more information about these rapidly growing options for USF’s students.

Non-credit Training and Professional Development

Educational Outreach promotes workforce and economic development through customized training and a wide range of personal and professional development opportunities. Primary programming division include: Community Music, Conferences and Institutes, Lifelong Learning, Mediation Institute, ORBIT (Office of Resources for Business and Industry Training), and Senior Programs.

Community Music Division

The USF Community Music Division is a full-service community music school and a member of the National Guild of Community Schools of the Arts. Utilizing facilities of the School of Music, the Division also uses music facilities in selected area schools and brings quality music instruction to various neighborhoods. The Division provides non-credit instruction for children and adults in both private and group settings. The school year is divided into two semesters of fourteen weeks each plus a summer session. Programs range from preschool music classes through adult private instruction.

Dedicated to providing the highest quality musical instruction, the Division has a talented teaching staff comprised of...
Division of Conferences and Institutes

As a unit of Educational Outreach, the Division of Conferences and Institutes plans and implements continuing education programs such as conferences, seminars, workshops, symposia and institutes for University units and external sponsors. The Division provides comprehensive program management services including program development/planning, financial planning and management, promotion, instructional resources, registration, logistics, Continuing Education Units, on-site management, evaluation and certificates. Over 6,000 people participated in DCI programs during 1996-97.

The Division is committed to excellence in services and the enhancement of continuing education opportunities for constituents. Programs assisted by the Division are educational in nature, budgeted, preparatory of the University mission, nonproprietary and approved by appropriate University units.

For additional information about developing programs or learning about upcoming programs, contact the Division of Conferences and Institutes, Educational Outreach, USF, 4202 E. Fowler Avenue, MHH 116, Tampa, FL 33620-6756; telephone: 813/974-5731; fax: 813/974-5732; e-mail: laurade@admin.usf.edu.

Division of Lifelong Learning

The Division of Lifelong Learning provides open enrollment continuing education programs for workforce education, professional development, and personal growth. Courses are noncredit and offer instruction in writing and communication skills, foreign languages, computer applications, visual and performing arts, test preparation, and personal development. The Division also offers specialized certificate programs and pre-college programs for youth. Various educational programs (workshops, seminars, and short courses) are scheduled throughout the year in conjunction with the Colleges and Departments of the University. The programs vary in length from one day to one year, and the subject matter is concentrated as needed for the group being served.

The Division of Lifelong Learning also develops programs for workforce development in business and industry, government, professional, civic, and personal growth. Quality of instructional methods assures maximum educational effectiveness and encourages individual participation. Distinguished faculty from USF and national and international resource persons serve as consultants, instructors, and facilitators in the programs.

The Continuing Education Unit (CEU) is awarded to participants who successfully complete programs that are sponsored by the Division and approved by the appropriate academic unit. Transcripts indicating awarded CEUs are available on written request.

Professional program coordinators provide program planning, preparation and evaluation, and are available to assist organizations, both within the University and in the local community, in developing programs consistent with the needs of the group and the overall educational objectives of the University.

The Florida Center for Writers, a joint project of the Department of English and the Division of Lifelong Learning at USF, was established to foster an appreciation of literature and to help writers of all levels master their craft. The Center sponsors the annual Florida Suncoast Writers' Conference and Workshop, ongoing classes in writing, the publication of Sunscripts: Writing from the Florida Suncoast Conference and Workshop, and various lectures and readings.

For more information, contact the Division of Lifelong Learning, Educational Outreach, University of South Florida, 4202 E. Fowler Avenue, MHH 116, Tampa, FL 33620-6756; 813/974-5201.

Mediation Institute

The USF Mediation Institute provides Florida Supreme Court approved courses used for certification in family and circuit civil mediation. In addition, the Mediation Institute provides educational programs that incorporate conflict resolution skills in parenting classes for divorcing families; juvenile dependency mediation; orientation materials for mediating parties; advanced mediation training; and assistance in developing training programs in emerging areas of conflict resolution through mediation.

For further information, contact the USF Mediation Institute, Educational Outreach, 4202 E. Fowler Avenue, MHH 116, Tampa, FL 33620-6756.

ORBIT (Office of Resources for Business & Industry Training) serves as a central information resource to link the business and academic communities in support of economic development initiatives and provides highly customized training programs specializing in database and information technology. MTEC (Manufacturing, Training and Education Center), now located at the STAR Center in Pinellas County, offers cost effective certification to the latest international standards, including ISO 9000 and ISO 14000, and helps small to medium manufacturers with a product engineering grant program. For additional information, call MTEC at (727) 545-7541, send an e-mail message to orbit@outreach.usf.edu, or visit the web site at http://www.outreach.usf.edu.

Established in 1998, ORBIT was designed to facilitate access for the corporate sector to the University’s resources for the purpose of specialized workforce development and training. For more information, call (813) 974-2801, send an e-mail message to orbit@outreach.usf.edu, or visit our web site at http://www.outreach.usf.edu.

Senior Programs

The Division of Senior Programs initiates and coordinates programs for adults of retirement age. Many of these programs are planned in conjunction with seniors who play an active volunteer role in facets of the programs. Programs include:

Senior Citizen Tuition Waiver Program: Florida residents who are 60 years of age or older by the first day of a respective semester may take certain undergraduate or graduate courses on a space available basis without paying tuition. Academic credit is not awarded, examinations are not required, and grades are not given. An orientation-registration is held at the beginning of each semester. Peer advisors are available for advising.

SeniorNet: An international, non-profit organization, SeniorNet is for seniors age 50 and over who are interested in learning to use computers. Members who join SeniorNet share and exchange knowledge and interest with members through an online network. Members may take courses taught by senior volunteers with extensive computer experience. Courses and fees are described in information sent to seniors who ask to be on a SeniorNet mailing list.

Learning in Retirement Institute: As an outgrowth of Elderhostel, the Learning in Retirement Institute builds upon the motivations and experiences of adults in retirement as they continue learning, expanding their horizons and enhancing their personal development. Learners develop intellectually stimulating educational programming within an organizational structure which distinguishes the Institute as an educational community of older learners. Learners must be members of the Institute and pay fees for study groups each semester. Membership information, study groups and study group leaders are described in information available to seniors who request inclusion on the LRI mailing list.

Other programs and courses are offered each term. For details on all Senior Programs, or to be placed on our mailing list, contact Division of Senior Programs, USF, 4202 E. Fowler
Tampa Campus Library

Central to the philosophy of the Tampa Campus Library is the view that the people it serves are equally as important as the books on its shelves. Students are encouraged to become familiar with the collection, to master the techniques of using it, and to achieve a familiarity with information resources that will carry over into later life.

The Tampa Campus Library contains a collection of more than 1,050,000 volumes, 4,900 periodicals and 2,600,000 microforms of all types to support a broad range and depth of faculty and student research, as well as personal knowledge and cultural advancement.

Reference Collection: The Reference Collection is located on the first floor of the Tampa Campus Library. Reference librarians assist students and faculty with both electronic and print resources. The Reference Collection consists of over 40,000 volumes including dictionaries, indexes, and abstracting services. Reference librarians present library orientation sessions as well as subject specific lectures. Access to electronic information via the Virtual Library includes WebLUIS, the online catalog for USF and the other nine state universities; over 50 databases; full-text material and document delivery services and World Wide Web access.

Periodicals Collection: The Periodicals Collection is located on the second floor with service provided at the Periodicals Information Desk and the Copier Assistance Desk. The collection contains more than 4,500 current periodicals and selected newspapers from Florida and major cities in the U.S. and foreign countries. A large collection of periodicals and newspapers in microfiche and microfilm are also located in the Periodicals Microroom. WebLUIS and Internet workstations provide access to full-text databases and electronic journals. Also located here is a fee-based copy service as well as self-service photocopying equipment.

Government Documents: The Library is a selective depository for U.S. and Florida government publications, maintains a U.S. patent and trademark depository, and acquires United Nations committee reports on microfiche. The collection, which is housed in the basement of the Library, contains over 2,5 million items, including a wide variety of materials in print, microform, and electronic format. The collection is augmented by the acquisition of selected publications of other public agencies, selected reference tools, and other specialized indexes and finding aids. Assistance with the location and use of government publications is provided at the Documents Information Desk.

Special Collections: Located on the fourth floor, this department houses the library’s rare books, Florida history, and other special collections, as well as the USF Archives. Its holdings total over one million items, with rare and unusual materials ranging from 4,000 year old Sumerian tablets to modern fine printing. In addition to books, Special Collections houses thousands of historical photographs, early maps, sheet music, printed ephemera, and original manuscripts. The department contains a number of nationally significant research collections, including the papers of Florida governors, congressmen and other political leaders. Also present are the papers and manuscripts of literary figures like Tennessee Williams and Mark Twain. The department's strongest area of emphasis is Florida history, but it also houses notable collections of historical children's literature, dime novels, African-American sheet music, cigar label art, and early American schoolbooks. Further information is available through the department's website at http://www.lib.usf.edu/spccoll/.

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Access Services (circulation, interlibrary services, reserve): Access Services is located on the first floor. The Reserve collection containing books and articles "reserved" at Academic Computing Helpdesk. Faculty request for use in a particular class is available at the Reserve service desk. Many reserve items are now available on the Electronic Reserve System, which is accessible on the worldwide web to any USF student. Circulating books that are shelved on the third through fifth floors can be checked out at the circulation service desk on the first floor. The Library uses an automated circulation system which facilitates easy and quick check out of books. Renewals can be done in person, by email or over the worldwide web. A statement of the library's circulation policy is available at the Access Services Service desk and on the USF Library's home page. Interlibrary services can obtain materials from other libraries upon request. Thus students have access to resources beyond the onsite collections at each campus. Forms for requesting materials are located at service desks throughout the library and on the Library's home page at http://www.lib.usf.edu.

Library Media Center and Lab: The Library Media Center (LMC) provides media materials for instruction, research, and curriculum support. Videocassettes, sound recordings, CD-ROMs, slides, kits, and other audio-visual formats as well as music scores are available for loan. The LMCPV Lab provides equipment for individual use of all media in the collection on reserve. The LMC also houses media supporting distance learning programs, including the Open University, Engineering FEEDS, and Instructional Television Fixed Service (ITFS).

Instructional and Open-Use Labs: The Library supports three state-of-the-art labs of networked workstations. Two labs, located on the second and sixth floors, are reserved for library instruction. The third lab, located on the first floor, is jointly maintained with Academic Computing as an instructional and open-use lab with facilities for word processing, electronic mail, and printing. More information about the collections and services of the Tampa Campus Library is available on the World Wide Web at http://www.lib.usf.edu.

ACADEMIC COMPUTING

Academic Computing provides services in direct support of instruction and research for students and faculty.

Student Support Services

Student support services are provided through the Academic Computing Help Desk LIB608 and the Academic Computing open use computer lab LIB125B. Walk in assistance for computer questions are provided in both locations. All USF students are provided with computing accounts, email and Internet access upon request. Other services include dial-up support for remote access and training workshops. Employment opportunities for students are available. Contact the Help Desk at LIB 608 or 974-1222 for assistance.

Faculty Support Services

ASCEND, the Academic Studio for Computer Education and Networked Developments is located at LIB628. ASCEND provides USF faculty the resources and support needed to bring technology into the classroom.

Programming Languages

Compilers for the usual range of applications are available on a variety of machines across campus. Guidance is available concerning access to the compilers. For numerically intense applications, the mathematical packages, and certain statistical programming languages, help is available.

Contact Information

Web site: www.acomp.usf.edu
Dialup document web site: www.acomp.usf.edu/~dialup
Campus network information site: www.net.usf.edu
Helpdesk email: help-ac@usf.edu
Training workshop email: actrainers@lists.acomp.usf.edu
Helpdesk phone: 974-1222
AC Lab phone: 974-7616

ADDITIONAL RESOURCES

There are service groups within many of the colleges and units. Users are encouraged to seek help from these groups because of the intimate knowledge of local systems. Information Technologies at 974-3000 provides support for USF's "corporate" computing, including all aspects of students' records.

INFORMATION TECHNOLOGIES/CFRDC

USF is the host institution for a large scale computing facility designated as the Central Florida Regional Data Center (CFRDC). This facility operates as a computing utility within the SUS and provides the primary administrative computing support for the University and numerous other agencies as well as a level of & R Computing. CFRDC is a division within Information Technologies (IT) and its support staff consists of Computer Operations and Technical Support including Database Administration. Computing accounts are established through the IT Financial Management group.

Central site computing equipment located in the Student Services Building on the Tampa campus includes an IBM 9672 Model R32 Enterprise Server supporting tape and disk storage subsystems, laser and impact printers in the MVS operating system environment, in addition to several SUN UNIX machines, and numerous NT servers supporting e-mail and calendaring as well as file and print services. CFRDC is heavily involved in the management and operation of the campus-wide Backbone Network providing access to research facilities on campus and the world. It also provides and supports the telephone and voice mail systems at all USF campuses. Microcomputers, printers, and other associated equipment are maintained in "open use" areas on all USF campuses to enable students, faculty, and staff access to the network and central site processing support. These remote open use areas may vary in their scheduled hours of operation, but, generally speaking, each provides significant amounts of access, normally six or seven days a week.

PUBLIC BROADCASTING

WUSF-TV (Channel 16, Tampa) is a noncommercial member assisted educational television station serving the community of the Tampa Bay area as an important outreach arm of the University. One of the most watched public TV stations in Florida, WUSF-TV provides high-quality educational, instructional, informational, cultural, and public affairs television programming and services to viewers in the greater Tampa/St. Petersburg/Sarasota areas including Polk, Pasco, and Hernando Counties, as well as USF faculty, staff, students, and other educational agencies. It also provides extensive production services to USF academic and support services units including telecourses, training videos, and DVD projects. The station is a member of the Public Broadcasting Service (PBS), National Educational Telecommunications Association (NETA), Florida Public Broadcasting Service Inc. (FPBS), American Public Television Station Inc. (APTS). WUSF-TV is a charter member of the Program Resources Group Inc. (PRG). For WUSF(AM) 89.7 MHz (Tampa/St. Petersburg, Sarasota) is a member supported noncommercial public radio station serving USF and its campuses and surrounding communities with 24 hours a day of classical music, jazz, educational, and news and information programming. The station is a member of National Public Radio (NPR), Public Radio International (PRI), Florida Public Broadcasting Service Inc. (FPBS), and Southern Public Radio (SPR). The station's program service reaches more than 4 million people from Crystal River to Winterhaven to Venice.

The WUSF Radio Reading Service (RRS) broadcasts daily readings of newspapers, magazines, and other materials from
Tampa and Sarasota for the print and physically disabled. More than 300 volunteers provide material on a 24-hour schedule. RRS airs on a sub-carrier frequency of WUSF-FM and on the SAP channel of WUSF-TV; qualified listeners receive the programming on special crystal-tuned receivers, loaned from the RRS.

INSTITUTE ON BLACK LIFE
As an outgrowth of the University of South Florida’s concern for and commitment to cultural diversity, the Institute on Black Life was established in the Fall of 1986, under the Office of the Provost, to serve as a bridge between USF and the global community. The main purpose of the Institute on Black Life is to serve as a vehicle to utilize the research expertise of faculty, students, and staff to identify and assist in the needs for research, training, and program development that will enhance the economic, educational, social, political and religious life of the community. The Institute on Black Life provides support and encouragement for African-American and other minority students, faculty, and staff through scholarships, fellowships, research grants, conferences, and program development. The Institute accomplishes its mission through three major components: research, development, and University/community service.

The Institute on Black Life maintains a highly professional applied research program. Faculty from various disciplines conduct research in the areas of cultural diversity and other issues critical to the quality of life.

Funding to support research projects is sought through contracts, grants and private foundations. This support assists in either the initiation of new projects or to providing resources to faculty and student research that is already in progress. The Institute holds workshops, seminars and conferences to discuss the findings of its research projects.

The Development component links the Institute with the private sector to establish support for students through scholarships, fellowships, book funds, and program development. The Institute on Black Life seeks funds from private foundations, corporations, and community organizations to assist in recruiting and retaining minority students.

The Institute develops community enhancement programs concerned with minority issues. These programs include a Speaker’s Bureau, lectures, workshops, seminars, forums and conferences. These programs are offered in conjunction with civic, non-profit organizations, local government agencies and businesses/corporations.

Center for African Diaspora
In November 1992, The Institute on Black Life initiated an agreement between the University of South Florida and the International Center for Bantu Civilizations (CICIBA) in Libreville, Gabon (Africa); thus becoming the first American university to officially affiliate with CICIBA. The Center for African Diaspora was established within the Institute on Black Life as an outgrowth of the CICIBA agreement. The Center is a major part of the Institute on Black Life’s commitment and ongoing efforts to combine and provide more focus on African issues and activities. The mission of the Center is to promote research and cultural activities through educational, economic, and cultural exchanges between the University of South Florida students, faculty, scholars, and the community regarding the political and socio-economic issues facing Africa and descendents of the African Diaspora.

OFFICE OF RESEARCH
Creative research and scholarly activities are essential aspects of the undergraduate educational experience at USF. The promotion and administration of such are the responsibilities of the Office of Research and its divisions, which provide services that enable USF faculty, staff, and students at all academic levels to be competitive in a dynamic research environment. The Office of Research administers both sponsored and non-sponsored activities and projects that include institutional research contracts and grants, patents and copyrights, federal and state research compliance regulations. USF’s own internal award programs, economic development initiatives, public-private partnerships, participation on the local research and development authority, research park development, technology transfer, and research activities of affiliated hospitals and institutes.

The Development of the Center for African Diaspora included developing a grant proposal to filing a patent to regulating biohazardous materials. The Research staff are trained professionals committed to meeting the needs of USF researchers. In turn, the dedication of USF undergraduate as well as graduate students and faculty researchers has contributed to the phenomenal growth in research that USF has experienced. In 1997/98, USF received nearly $135 million in research funding—quite a feat when compared to the $22 million received just 12 years ago.

USF faculty, students, and staff are active in the search for new knowledge and consistently demonstrate their concern about the world in which they live. With the support of private and public agencies, they contribute to our knowledge about the world in which we live and apply their findings and skills to solving many of the problems facing contemporary society. Many contributions evolve from basic research; others, from practical applications of new knowledge. Other projects make specialized training available to public officials, to organizations working for social betterment, to religious and educational institutions, and to business and manufacturing organizations. Through sponsored and non-sponsored activities, USF faculty, students, and staff make significant contributions to the University’s instructional programs. Additional information about services and programs is available on the World Wide Web (http://www.research.usf.edu).

LOUIS DE LA PARTE FLORIDA MENTAL HEALTH INSTITUTE
The de la Parte Florida Mental Health Institute’s (FMHI) mission is to strengthen mental health services in the State of Florida by providing research, training, and education on mental health services (Florida Statute 240.514).

The Institute’s programs are conducted by four departments: Aging and Mental Health, Child and Family Studies, Community Mental Health, and Mental Health Law and Policy. The Institute conducts a broad range of applied research, training, and dissemination activities related to the planning, development, delivery, and evaluation of public mental health services. FMHI’s training and consultation activities are provided to a variety of audiences including mental health and health care professionals, the Florida legislature, administrators, policy makers, planners, consumers, students, and the public.

FMHI provides continuing education opportunities for mental health and health professionals. FMHI is approved to provide continuing education credits for the following professional organizations: American Psychological Association, Florida Department of Professional Regulation, Florida Board of Nursing, and the Certification Board of Addiction Professionals of Florida. FMHI also provides continuing education credits to professional groups such as physicians and attorneys throughout the following organizations: the USF Continuing Medical Education Office and the Florida Bar Association.

FMHI offers undergraduate and graduate students research assistantships, volunteer and part-time employment opportunities. Students may earn academic credit for independent research performed at the Institute in conjunction with USF courses. FMHI faculty teach credit courses in degree-granting programs in cooperation with other USF colleges.

FMHI’s pre-doctoral internship program for psychologists is approved by the American Psychological Association. Undergraduate and graduate students participate in FMHI’s Multicultural Mental Health Training Program designed to attract minority students to the mental health field.
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 and an 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 sense of love for learning, and an understanding of the means which 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. The basis from which personal growth occurs. The College of Arts and Sciences takes as its goal a melding of the natural, humanistic and social philosophies into a comprehensive whole that encourages the development of new ideas and new approaches to the understanding of our universe.

Great universities provide direction for their communities and service for their needs. The faculty of the Arts and Sciences and the staff, who support and encourage their work, explore their scholarly interests within the home and community created by the academic society. It is the responsibility of scholars to share their discoveries for the betterment of society. Thus, the Arts and Sciences embrace disciplines that strive to make immediate use of knowledge in the service of social goals as well as disciplines whose discoveries contribute to the fund of basic information which is the steppingstone of applied knowledge.

COMMUNITY INITIATIVE

Universities have become major actors in today's knowledge-based society. As such they can no longer remain secluded ivory towers, removed from the social problems that surround them. Recognizing this, the College of Arts and Sciences has launched the Community Initiative, a new focus that identifies the community outside the University as an integral part of its educational mission to acquire, disseminate, and apply knowledge. The Community Initiative will develop concrete and integrated efforts to link the teaching, research, and service components of our College with the interests and needs of resident, community-based organizations and businesses in the local area. Two major components of the Community Initiative are the Urban Studies Certificate and the Community Experiential Learning (CEL) Program. The Urban Studies Certificate gives students the opportunity to supplement their education and training with a focus on the urban world around us. Through the Community Experiential Learning (CEL) Program students can explore the relationship between their classroom learning and the broader community as they do community-based independent research or internships.

ADMISSION TO THE COLLEGE

Admission to the College of Arts and Sciences is open to students who have been accepted to the University of South Florida and who declare a major in a particular field. Liberal Studies, Mass Communications, and Social Work are limited access degree programs and have additional requirements listed under Programs and Curricula.

Undergraduate students must submit a formal application for admission into the College. This usually occurs during Orientation and Advising for New Students. This application is also available in the Arts and Sciences Office of Academic Affairs (SOC 102) for continuing students. Following admission, students are counseled by an academic adviser in his/her major field. Students preparing for a science or mathematics career must plan their courses carefully because of the sequential nature of the science curriculum, and students seeking entrance into a professional school or the medical technology internship program require specialized counseling. Therefore, immediate application for admission into the College is strongly recommended.

Information on admission criteria, departments, majors, programs, counseling and other services of the College may be obtained from the Office of Academic Affairs (SOC 102), College of Arts and Sciences, University of South Florida, Tampa, Florida 33620 or visit our web site at http://www.cas.usf.edu.

SCIENCE ADVISING CENTER

The Science Advising Center provides a complete range of advising and informational services to Biology, Chemistry, Geology, Physics, Interdisciplinary Natural Sciences, and Medical Technology Majors. In addition, the center provides a wide range of services to Pre-medical, Pre-dental, Pre-podiatry, Pre-veterinary and other Health Pre-Professional students. These services include advising, workshops on application to professional school, maintenance of evaluation files for professional school applicants, and coordination of health professions student organizations. Center advisors are prepared to assist students with planning their academic program and with incorporating career enhancement opportunities into their educational experience. The center maintains a large library of resource materials related to post-bachelor degree schools and programs, and to careers in the sciences and health professions. Offices are located in CHE 106. Phone: 974-2574, FAX: 974-5314.

TRANSFER CREDITS

Transfer credit for MAT 1033 will only be acceptable towards a bachelor's degree in the College of Arts and Sciences if it was earned as part of an Associate of Arts degree awarded by a public community college in the State of Florida or is part of a Florida public community college transcript which explicitly indicates that general education or general distribution requirements have been met.

Students enrolled in the College of Arts and Sciences must receive prior approval to take courses at another institution to apply toward a degree at USF.

GENERAL REQUIREMENTS FOR DEGREES

The College of Arts and Sciences offers three undergraduate degrees: Bachelor of Arts, Bachelor of Science, and Bachelor of Social Work. A minimum of 120 semester hours credit (124 semester hours for Mass Communications) with an overall average of 2.0 or better in all work completed at the University of South Florida must be attained in order to earn the undergraduate degree. The Bachelor of Independent Studies is an external degree program in which the student proceeds, at his/her own pace.

IT IS YOUR RESPONSIBILITY TO MEET GRADUATION REQUIREMENTS.

1. You must complete at least 120 accepted semester hours with an overall gpa of 2.000. Mass Communications requires 124 hours for the 1987-88 catalog and after.
2. You must have an overall major gpa of 2.75. Note: In Mass Communications you must have a 2.500 gpa in major courses in the 1989 catalog and after; Social Work requires a 2.75 major gpa.
3. You must complete the Foreign Language Entrance Requirement if you entered USF fall semester, 1987 or later. If you are pursuing a B.A. degree, you must complete the Foreign Language Exit Requirement.
4. If you first enrolled in a college in January, 1983 or after, you must satisfy State Rule 6A-10.30 (Gordon Rule) concerning computation and communications. Transfer students who enter the University of South Florida with 60 or more semester hours from a regionally accredited institution are considered to have met the communications portion of the Gordon Rule.
5. You must satisfy Liberal Arts Requirements.
6. General Education Requirements (36) hours credit - Six (6) hours credit in English Composition
Six (6) hours credit in Quantitative Methods
Six (6) hours credit in Natural Sciences
Six (6) hours credit in Social Sciences
Six (6) hours credit in Historical Perspectives
Three (3) hours credit in Fine Arts
Three (3) hours credit in African, Latin American, Middle Eastern, or Asian Perspectives
Exit Requirements (9) hours credit
Six (6) hours credit in Major Works and Major Issues
Three (3) hours credit in Literature and Writing
6. Elective Physical Education is limited to 2 semester hours.
7. ROTC is limited to 9 semester hours.
8. Maximum of 20 hours of S/U option; none in major courses.
9. The Audit option is available only during the first 5 days of classes; none permitted later.
10. You must complete at least 9 semester hours during summer terms if you entered USF with fewer than 60 semester hours.
11. "D" grades are not acceptable in the major and supporting courses for all natural sciences majors. "D" grades are not acceptable for the major area in Communication Sciences and Disorders, Psychology, Work, Science, Social Work, Sociology, Mass Communications, English, History, Humanities, and Communication. Only one "D" is allowed in the major for Criminology. (Important! All grades including "D"s and "F"s are used to calculate all Arts and Sciences major gpa.)
12. You must satisfy all major course requirements.
13. You must complete a minimum of 40 hours of upper-level courses (numbered 3000 or above). Most of the major hours fit here. Lower-level course work from 2-year or 4-year schools, though equivalent to a 3000-level course at USF, does not meet this requirement.
14. Thirty (30) of the last 60 semester hours must be completed at USF to fulfill the residency requirement. The departments of Biology, Chemistry, Mathematics, and Physics have established minimum major course hours to be taken in residency at USF. See the department section of the catalog for the required hours. There must be a minimum of 80 hours (90 for Mass Communications) outside of your major department for all majors in arts and letters and social sciences.
15. You must take and pass the CLAST (College Level Academic Skills Test) exam by the time you complete 45 semester hours or in your first term as an upper level transfer student. Only students with a baccalaureate degree or who have previous exemption do not have to take the test. (If not passed by 70 hours, remediation will be required. You may still take other courses. If not passed by 96 hours, contact the Office of Evaluation and Testing for further information regarding course work.
16. A maximum of 14 hours of non-degree seeking hours (special student classification) will count for graduation.
17. All USF degree seeking and non-degree seeking students are bound by the drop policy. From the second through the ninth week of classes (time period is different in summer—check class schedule) and between 59 semester hours, 3 drops are allowed and between 60 semester hours and graduation 3 more drops are allowed. Students classified as 5 (usually second degree seekers) are also allowed only 3 drops. Additional drops above these numbers result in an automatic "F" grade. Drops within the first 5 days of classes are not considered. Students can drop classes by telephone or by submitting a drop form to the Registrar’s Office. Mandatory First Day Attendance policy is not in effect for any classes for which registration occurs during the first week. Open University courses and certain other categories of courses as indicated in the Schedule of Classes must be dropped by telephone.
18. Students must be in residence the first day each class meets for all classes registered before classes begin. Failure to attend will result in an automatic drop from the class. Do not use this policy as a way to drop classes; drop by telephone. Mandatory First Day Attendance policy is not in effect for any classes for which registration occurs during the first week. Open University courses and certain other categories of courses as indicated in the Schedule of Classes must be dropped by telephone.
19. Students are allowed to repeat a course in which a B, C, D or F has been earned and have only the second grade of A, B, C, or D count in the gpa by submitting a Grade Forgiveness Form. A maximum of 3 grade forgiveness are allowed and grade forgiveness may be used for a course only once. Note: Both the original and repeated courses must be taken at USF. All courses for which forgiveness has been applied are considered for honors.
20. Students are in good academic standing unless the grade point average for courses taken at USF falls below a 2.000. (Transfer grades are not considered.) The first semester the gpa falls below a 2.000, students are placed on academic probation (AP). If the USF gpa is not raised to 2.000 the next term of enrollment, students are placed on final academic probation (FAP). Students will be permanently dismissed (PAD) if the USF gpa is not raised to 2.000 after three consecutive terms of registration. Mandate First Day Attendance policy is in effect for any classes for which registration occurs during the first week. Open University courses and certain other categories of courses as indicated in the Schedule of Classes must be dropped by telephone. Mandatory First Day Attendance policy is not in effect for any classes for which registration occurs during the first week. Open University courses and certain other categories of courses as indicated in the Schedule of Classes must be dropped by telephone.
21. You must satisfy all major course requirements.
22. You must take and pass the CLAST (College Level Academic Skills Test) exam by the time you complete 45 semester hours or in your first term as an upper level transfer student. Only students with a baccalaureate degree or who have previous exemption do not have to take the test. (If not passed by 70 hours, remediation will be required. You may still take other courses. If not passed by 96 hours, contact the Office of Evaluation and Testing for further information regarding course work.
23. All USF degree seeking and non-degree seeking students are bound by the drop policy. From the second through the ninth week of classes (time period is different in summer—check class schedule) and between 59 semester hours, 3 drops are allowed and between 60 semester hours and graduation 3 more drops are allowed. Students classified as 5 (usually second degree seekers) are also allowed only 3 drops. Additional drops above these numbers result in an automatic "F" grade. Drops within the first 5 days of classes are not considered. Students can drop classes by telephone or by submitting a drop form to the Registrar’s Office. Mandatory First Day Attendance policy is not in effect for any classes for which registration occurs during the first week. Open University courses and certain other categories of courses as indicated in the Schedule of Classes must be dropped by telephone.
24. Students are allowed to repeat a course in which a B, C, D or F has been earned and have only the second grade of A, B, C, or D count in the gpa by submitting a Grade Forgiveness Form. A maximum of 3 grade forgiveness are allowed and grade forgiveness may be used for a course only once. Note: Both the original and repeated courses must be taken at USF. All courses for which forgiveness has been applied are considered for honors.
25. Students are in good academic standing unless the grade point average for courses taken at USF falls below a 2.000. (Transfer grades are not considered.) The first semester the gpa falls below a 2.000, students are placed on academic probation (AP). If the USF gpa is not raised to 2.000 the next term of enrollment, students are placed on final academic probation (FAP). Students will be permanently dismissed (PAD) if the USF gpa is not raised to 2.000 after three consecutive terms of registration. Mandate First Day Attendance policy is in effect for any classes for which registration occurs during the first week. Open University courses and certain other categories of courses as indicated in the Schedule of Classes must be dropped by telephone. Mandatory First Day Attendance policy is not in effect for any classes for which registration occurs during the first week. Open University courses and certain other categories of courses as indicated in the Schedule of Classes must be dropped by telephone.
26. You must satisfy all major course requirements.
27. You must take and pass the CLAST (College Level Academic Skills Test) exam by the time you complete 45 semester hours or in your first term as an upper level transfer student. Only students with a baccalaureate degree or who have previous exemption do not have to take the test. (If not passed by 70 hours, remediation will be required. You may still take other courses. If not passed by 96 hours, contact the Office of Evaluation and Testing for further information regarding course work.
28. All USF degree seeking and non-degree seeking students are bound by the drop policy. From the second through the ninth week of classes (time period is different in summer—check class schedule) and between 59 semester hours, 3 drops are allowed and between 60 semester hours and graduation 3 more drops are allowed. Students classified as 5 (usually second degree seekers) are also allowed only 3 drops. Additional drops above these numbers result in an automatic "F" grade. Drops within the first 5 days of classes are not considered. Students can drop classes by telephone or by submitting a drop form to the Registrar’s Office. Mandatory First Day Attendance policy is not in effect for any classes for which registration occurs during the first week. Open University courses and certain other categories of courses as indicated in the Schedule of Classes must be dropped by telephone. Mandatory First Day Attendance policy is not in effect for any classes for which registration occurs during the first week. Open University courses and certain other categories of courses as indicated in the Schedule of Classes must be dropped by telephone.
Students may participate in CEL anytime during their academic career. Good standing at the university and a 2.0 gpa is required for acceptance into the Program. CEL courses are offered throughout the entire year. Ideally, students should plan their CEL projects during the term prior to their implementation, but they can be added at any time during the term.

PROGRAMS LEADING TO THE BACCALAUREATE DEGREE

The departments and programs in the College of Arts and Sciences are Africana Studies, American Studies, Anthropology, Biology, Chemistry, Classics, Communication, Communication Sciences and Disorders, Criminology, Economics, English, Environmental Science and Policy, Geography, Geology, Gerontology, History, Humanities, Independent Studies, Interdisciplinary Social Sciences; International Studies, Liberal Studies, Mass Communications, Mathematics, Medical Technology, Languages and Linguistics, Philosophy, Physics, Political Science, Psychology, Public Administration, Rehabilitation Counseling, Religious Studies, Social Work, Sociology, and Women's Studies. The College of Arts and Sciences offers 53 major fields of study as described in the following pages. In addition to the departmental majors, interdisciplinary majors are offered. Economics offers two majors, one in the College of Arts and Sciences and the other in the College of Business Administration.

**Bachelor of Arts**
- Africana Studies (AFA)
- American Studies (AMS)
- Anthropology (ANT)
- Biology (NSB)\* 
- Chemistry (CHM) (NSC)*
- Classics (CLS) - housed in Division of Languages and Linguistics
- Communication (SPE)
- Criminology (CCJ)
- Economics (ECN)
- English (ENG)
- French (FRE)
- Geography (GYP)
- Geology (GLY)
- German (GER)
- Gerontology (GEY)
- History (HTY)
- Humanities (HUM)
- Interdisciplinary Natural Sciences:
  - Biology (INB)
  - Chemistry (INC)
  - Clinical Laboratory Sciences (INL)
  - Geology (ING)
  - Mathematics (INM)
  - Physics (INP)
- Interdisciplinary Social Sciences (ISS)
- Communication Sciences and Disorders
  - Speech-Language-Hearing Concentration (ISH)
- American Sign Language Concentration (ISA)
- Educational Interpreter Concentration (ISI)
- International Studies (INT) - housed in Government & International Affairs
  - Italian (ITA)
  - Liberal Studies (ALA)
  - Mass Communications (COM)
  - Mathematics (MTH, MAE*)
  - Philosophy (PHI)
  - Physics (NSP*, PHY)
  - Political Science (POL) - housed in Government & International Affairs
  - Psychology (PSY)
  - Religious Studies (REL)
  - Russian (RUS)
  - Sociology (SOC)
  - Social Science Education (SSE)*
  - Spanish (SPA)
  - Women's Studies (WST)

**Bachelor of Science Degree**
- Biology (BIO)
- Chemistry (CHS)
- Environmental Science and Policy (ESP)
- Geology (GLY)
- Gerontology (GES)
- Medical Technology (MET)
- Microbiology (MIC) - housed in Biology
- Physics (PHS)

**Bachelor of Social Work Degree (B.S.W.)**
- Social Work (SOK)

**Bachelor of Independent Studies (B.I.S.)**
- Independent Studies (BIS)

\*Offered jointly with the College of Education.

**Honors Programs**

Faculty and selected students in the college participate in the University Honors Program. In addition, the College of Arts and Sciences offers undergraduate honors programs in Anthropology, Biology, Classics, Communication, Geology, Mathematics, Philosophy, Political Science, Psychology, and Sociology. Students interested in one of these honors programs should consult the appropriate department for further information.

**CERTIFICATES OF CONCENTRATION**

**Certificate Programs**

The Certificate of Concentration is a short-term program for students who are interested in taking a series of courses in a selected area of Arts and Sciences, but are not necessarily interested in a degree. A minimum of 16 hours of approved course work are required. Students working for a Certificate of Concentration may register as special or as degree-seeking students.

**Certificate in Asian Studies**

Requirements for the Certificate in Asian Studies:

1. At least two courses must be from Group A and at least two courses must be from Group B. (Other relevant courses may be substituted with the approval of the program advisor.)
2. Students must declare their intention to be awarded the certificate by notifying the program advisor at least one full semester prior to graduation.
3. Students who fail to achieve a cumulative 2.5 GPA or higher in the program will be denied the certificate.
4. Students who fail to achieve a cumulative 2.5 GPA or higher in the program will be denied the certificate.

Courses credited toward the Asian Studies Certificate:

**Group A**
- ARH 4530 (4)
- ARH 4796 (4)

**Arts**
- CHI 2201 (4)
- CHI 4905 (1-5)
- CHI 4930 (1-5)
- JPN 2201 (3)
- JPN 4905 (1-5)
- JPN 4930 (1-5)
- REL 3330 (3)
- REL 4343 (4)
- REL 4333 (4)

**Languages**
- HUM 3271 (4)
- HUM 3273 (4)
- HUM 4402 (4)
- HUM 4404 (4)
- HUM 4405 (4)
- JPN 1120 (4)
- JPN 1121 (4)
- JPN 2000 (3)
- JPN 2000 (3)
- JPN 4905 (1-5)
- JPN 4930 (1-5)

**Religion**
- REL 3330 (3)
- REL 4330 (3)
Certificate in Corrections

The Department of Criminology offers a Certificate in Corrections. This is a recognized certificate from the Florida Criminal Justice Standards and Training Commission (FCJSTC) and the Florida Department of Corrections (FDOC) as satisfying some of the Basic Recruit Training.

The advisor for the Certificate in Corrections is Professor Renu Khator. She may be contacted at SCA 237, 813-974-2878, or by e-mail: khator@chuma1.cas.usf.edu.

Certificate in Latin American and Caribbean Studies

The College of Arts and Sciences offers a Certificate in Latin American and Caribbean Studies for students who wish to gain an interdisciplinary understanding of this important area. This certificate is designed for students who want to learn more about the region and have that knowledge formally recognized in their academic record.

The Certificate is granted to a person who takes a minimum of 15 semester hours of courses about Latin America and the Caribbean. One course must be taken in each of the following areas: 1) Anthropology, 2) Geography/Government & International Affairs, 3) History, and 4) Art/Humanities/Literature. A fifth course may be taken from a list of other courses.

The student and the Coordinator will plan the individual course of study, which requires between 21 and 24 semester hours. Students must declare their intention to be awarded the certificate by notifying the Coordinator at least one full semester prior to graduation. A cumulative gpa of 2.5 in the certificate course work is required. Please contact Professor Georg H. Kleine at SOC 274, 813-974-2688, or by e-mail: kleine@luna.cas.usf.edu.

The advisor for the Certificate in Asian Studies is Professor Georg H. Kleine. She may be contacted at SCA 237, 813-974-2878, or by e-mail: klein@luna.cas.usf.edu.

Certificate in Modern Western European Studies

The College of Arts and Sciences offers this certificate through the collaboration of the Departments of English, Geography, History, Humanities and American Studies, Government and International Affairs, Languages & Linguistics and Philosophy. It is designed for majors in any field who wish to gain a multi-disciplinary understanding of a part of the world that has shaped much of our civilization and holds great significance for Americans in present and future.

The student and the Coordinator will plan the individual course of study, which requires between 21 and 24 semester hours. Students must declare their intention to be awarded the certificate by notifying the Coordinator at least one full semester prior to graduation. A cumulative gpa of 2.5 in the certificate course work is required. Please contact Professor Georg H. Kleine at SOC 274, 813-974-2688, or by e-mail: klein@luna.cas.usf.edu.

**I. Language Requirement (6)**

Students will enroll in two additional semesters of the foreign language they have taken in fulfillment of the College of Arts and Sciences language requirement.

**II. Core Courses (9-10)**

Students will take a total of three courses from the following; one of them must be either EUS 3000 or GEA 3500.

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
</tr>
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<tbody>
<tr>
<td>EUS 3000</td>
<td>Europe</td>
</tr>
<tr>
<td>GEA 3500</td>
<td>Geography of Europe</td>
</tr>
<tr>
<td>EUH 3206</td>
<td>History of Twentieth Century Europe</td>
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<tr>
<td>HUM 3251</td>
<td>Studies in Culture: The Twentieth Century</td>
</tr>
<tr>
<td>LIT 3144</td>
<td>Modern European Novel</td>
</tr>
<tr>
<td>PHM 4331</td>
<td>Modern Political Philosophy</td>
</tr>
</tbody>
</table>
III. Elective Courses (6-8)

A. Overseas Experience

Students should make Western European study and travel an important component of their academic work. They are required to enroll for at least 3 elective credit hours in courses that involve Western European study and travel. These may be taken in one of three ways: (1) as IDS 4955 (Off-Campus Term International Program), (2) as one or two of the courses listed below as Elective Courses, or (3) as part of overseas study courses offered by other U.S.F. colleges and other universities. Western European study and travel allows students to concentrate on one of the areas of electives. Elective courses under options (2) and (3) will be chosen in consultation with the Coordinator and an Advisory Committee. Students may want to use overseas experience credits to fulfill their summer enrollment requirement.

A structured alternative experience in the United States may be substituted for the Overseas Experience. The Certificate accepts IDS 4943 (Off-Campus Term Special Project) or any of the courses listed below as Elective Courses for credit for this requirement. Coordinator, Advisory Committee and student will tailor the experience to fit the student's individual needs.

B. English (3)

ENL 3230 British Literature 1616-1780
ENL 3251 British Literature 1780-1900
ENL 3273 British Literature 1900-1945
ENL 3331 Early Shakespeare
ENL 3332 Late Shakespeare
LIT 3102 Literature of the Western World II

C. History (1-4)

EUH 3142 Renaissance and Reformation
EUH 3202 History of 17th and 18th Century Europe
EUH 3205 History of Nineteenth Century Europe
EUH 3206 History of Twentieth Century Europe
EUH 3461 German History to 1870
EUH 3462 German History 1870 to Present
EUH 3501 British History to 1688
EUH 3502 British History 1688 to Present
HIS 3930 Special Topics
HIS 4900 Directed Reading

D. Humanities and American Studies (1-4)

HUM 4437 Italian Renaissance Culture
HUM 4438 Northern Renaissance Culture
HUM 4440 Arts and Letters in the 17th and 18th Centuries
HUM 4442 Arts and Letters of the Romantic Period
HUM 4444 19th Century European Arts and Letters
HUM 4445 20th Century European Arts and Letters
HUM 4905 Directed Study
HUM 4941 Study on Location

E. Government and International Affairs (3)

CPO 4930 Comparative Government and Politics
INR 3955 Overseas Study
POS 3931 Selected Topics
POS 4905 Independent Study
POT 4054 Modern Political Theory

F. Languages and Linguistics (1-4)

(Note: the student should take courses from the list below after completing the two additional semesters of the foreign language requirement (see I) or, if already advanced in a language, with the instructor's approval. These courses are generally taught in the target language.)

FRENCH
FRE 3230 Reading in French Literature and Culture
FRE 3440 French for Business
FRE 3500 French Civilization
FRW 4100 Introduction to French Novel
FRW 4101 Introduction to French Drama and Poetry
FRE 4905 Directed Study

GERMAN
GER 3500 German Civilization
GET 3100 German Literature in English
GEW 4100 Survey of German Literature I
GEW 4101 Survey of German Literature II
GEW 4900 Directed Study
GEW 4930 Selected Topics

ITALIAN
ITW 4100 Survey of Italian Literature I
ITW 4101 Survey of Italian Literature II
ITW 4905 Directed Study

SPANISH
SPN 3440 Spanish for Business
SPN 3441 Advanced Spanish for Business Writing
SPN 3500 Spanish Civilization
SPW 3030 Introduction to Hispanic Literature
SPW 4100 Survey of Spanish Literature I
SPW 4101 Survey of Spanish Literature II
SPW 4900 Directed Study
SPW 4930 Selected Topics

G. Philosophy (3)

PHI 3786 Existentialism
PHI 4410 Kant
PHI 4740 The Rationalists
PHI 4745 The Empiricists
PHI 4440 Continental Philosophy
PHI 4441 Modern Political Philosophy

Courses not included in the above list may be included in the program if approved by the Coordinator and an Advisory Committee.

Certificate in Russian Studies

The College of Arts and Sciences offers a Certificate in Russian Studies for students who wish to gain an intensive multidisciplinary understanding of this important area. A minimum of 23 to 26 semester hours is required of all students seeking such a certificate, and will be distributed in the following manner:

Language-Linguistics-Literature

Twelve hours from the following courses, 8 of which must be in language:

LIN 4930 Selected Topics in Linguistics (1-3)
RUS 2200 Russian III (4)
RUS 2201 Russian IV (4)
RUS 3240 Conversation I (4)
RUS 3500 Russian Civilization (3)
RUS 4241 Conversation II (4)
RUT 3110 Russian Classics in Translation (3)
RUT 3111 Twentieth Century Russian Literature in Translation (3)
RUS 2270 Overseas Study (1-6)
RUS 3470 Overseas Study (1-6)
RUS 4471 Overseas Study (1-6)

History-Political Science-Economics

Six to eight hours from the following courses:

CPO 3002 Introduction to Comparative Politics (4)
ECO 4323 Marxist Political Economy (3)
ECO 4535 Russian Political Economy (3)
EUS 3571 Russian History to 1865 (4)
EUS 3572 Russian History from 1865 to Present (4)

International Studies-Geography-Philosophy

Six to eight hours from the following courses:

EUS 3022 Russia (3)
Certificate in Urban Studies

The Urban Studies Certificate offers students the opportunity to supplement their education and training with a focus on the problems and potentials of the urban world around us. Eighty percent of Americans live in one of the country’s nearly 400 major metropolitan areas. Understanding the economic, social, cultural, political and spatial phenomena of urban areas, and how they came to be, is essential if one is to thrive in today’s world. The Urban Studies curriculum begins with an interdisciplinary Introduction to Urban Studies and then weaves the multidisciplinary urban offerings into a coherent understanding of urban life. The Urban Studies Coordinator helps each student fashion a curriculum that meets his/her unique intellectual and career needs. The curriculum, through its courses and internship possibilities, focuses on the “real world,” thus providing students with a valuable foundation for their career planning and advancement. With the help of the Urban Studies Coordinator, students can design concentrations in urban planning, urban management, community development, community organizing, etc. The Certificate requires a minimum of 24 credits.

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>GEA 3554</td>
<td>Geography of the USSR</td>
<td>4</td>
</tr>
<tr>
<td>INR 5086</td>
<td>Issues in International Relations</td>
<td>3</td>
</tr>
<tr>
<td>INR 3018</td>
<td>World Ideologies</td>
<td>3</td>
</tr>
<tr>
<td>INR 3770</td>
<td>Comparative Military Systems</td>
<td>3</td>
</tr>
<tr>
<td>PHP 4788</td>
<td>The Philosophy of Marxism</td>
<td>3</td>
</tr>
<tr>
<td>INR 4900</td>
<td>Directed Readings*</td>
<td>1-4</td>
</tr>
<tr>
<td>INR 4910</td>
<td>Directed Research*</td>
<td>1-4</td>
</tr>
<tr>
<td>INR 3955</td>
<td>Overseas Study*</td>
<td>1-6</td>
</tr>
<tr>
<td>INR 4931</td>
<td>Selected Topics*</td>
<td>1-4</td>
</tr>
</tbody>
</table>

*When topic is defined as Russian or directly related area.

Other courses may be substituted for those listed above upon approval of the Russian Studies coordinator.

### Core Courses (9-10 credits)

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>URS 3002</td>
<td>Introduction to Urban Studies</td>
<td>3</td>
</tr>
<tr>
<td>AND 2</td>
<td>2 of the following:</td>
<td></td>
</tr>
<tr>
<td>ANT 4442</td>
<td>Urban Life and Culture</td>
<td>3</td>
</tr>
<tr>
<td>ECP 3613</td>
<td>Economics of the Urban Environment</td>
<td>3</td>
</tr>
<tr>
<td>GEO 3602</td>
<td>Urban Geography</td>
<td>4</td>
</tr>
<tr>
<td>POS 3142</td>
<td>Introduction to Urban Politics and Government</td>
<td>3</td>
</tr>
<tr>
<td>SYD 4410</td>
<td>Urban Sociology or</td>
<td>3</td>
</tr>
<tr>
<td>ISS 4162</td>
<td>City and Urbanization</td>
<td>3</td>
</tr>
</tbody>
</table>

Courses may have prerequisites within the discipline.

### Methods Courses (select 1 of the following: 3-4 credits)

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ANT 4495</td>
<td>Methods in Cultural Research</td>
<td>3</td>
</tr>
<tr>
<td>ANT 4930</td>
<td>Social Networks</td>
<td>3</td>
</tr>
<tr>
<td>ECO 4935</td>
<td>Economics Statistics</td>
<td>3</td>
</tr>
<tr>
<td>POS 3713</td>
<td>Empirical Political Analysis</td>
<td>3</td>
</tr>
<tr>
<td>STA 2122</td>
<td>Social Science Statistics</td>
<td>3</td>
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<tr>
<td>SYA 3300</td>
<td>Research Methods</td>
<td>3</td>
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<tr>
<td>SYA 3310</td>
<td>Qualitative Inquiry</td>
<td>3</td>
</tr>
<tr>
<td>GEO 4114C</td>
<td>Geographic Techniques and Methodology</td>
<td>4</td>
</tr>
<tr>
<td>GEO 3164C</td>
<td>Quantitative Methods</td>
<td>4</td>
</tr>
</tbody>
</table>

Courses may have prerequisites within the discipline.

### Electives (select 4 from the following list or from the Core Courses not counted above: minimum of 12 credits)

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>AFA 4331</td>
<td>Social Institutions and the African-American Community</td>
<td>3</td>
</tr>
<tr>
<td>AMH 3572</td>
<td>African American History since 1865</td>
<td>3</td>
</tr>
<tr>
<td>AMS 3700</td>
<td>Racism in American Society</td>
<td>3</td>
</tr>
<tr>
<td>AFA 4335</td>
<td>Black Women in America</td>
<td>3</td>
</tr>
<tr>
<td>AFA 4931</td>
<td>Social and Cultural Issues in Black Urban Life</td>
<td>3</td>
</tr>
<tr>
<td>PUP 3313</td>
<td>Blacks in the American Political Process</td>
<td>3</td>
</tr>
<tr>
<td>ANT 4316</td>
<td>Ethnic Diversity in the U.S.</td>
<td>3</td>
</tr>
<tr>
<td>ANT 4452</td>
<td>Health, Illness and Culture</td>
<td>3</td>
</tr>
<tr>
<td>ANT 4705</td>
<td>Applied Anthropology</td>
<td>3</td>
</tr>
<tr>
<td>ANT 4930</td>
<td>Special Topics in Anthropology</td>
<td>3</td>
</tr>
<tr>
<td>ARC 4784</td>
<td>The City</td>
<td>3</td>
</tr>
<tr>
<td>SPC 3712</td>
<td>Communication and Cultural Diversity</td>
<td>3</td>
</tr>
<tr>
<td>SPC 4714</td>
<td>Communication, Culture and Community</td>
<td>3</td>
</tr>
<tr>
<td>CES 4500</td>
<td>Structures and Urban Environments for Non-Engineers</td>
<td>3</td>
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<tr>
<td>TTE 5501</td>
<td>Transportation Planning and Economics</td>
<td>3</td>
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<tr>
<td>CCJ 3003</td>
<td>Crime and Justice in America</td>
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<tr>
<td>CCJ 3024</td>
<td>Survey of the Criminal Justice System</td>
<td>3</td>
</tr>
<tr>
<td>CCJ 3610</td>
<td>Theories of Criminal Behavior</td>
<td>3</td>
</tr>
<tr>
<td>CCJ 3621</td>
<td>Patterns of Criminal Behavior</td>
<td>3</td>
</tr>
<tr>
<td>CCJ 4110</td>
<td>American Law Enforcement Systems</td>
<td>3</td>
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<tr>
<td>CCJ 4501</td>
<td>Juvenile Justice System</td>
<td>3</td>
</tr>
<tr>
<td>CCJ 4511</td>
<td>Police and Juvenile Delinquency</td>
<td>3</td>
</tr>
<tr>
<td>CCJ 4550</td>
<td>Developmental Aspects of Juvenile Delinquency</td>
<td>3</td>
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<tr>
<td>CCJ 4652</td>
<td>Juvenile Substance Use</td>
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</tr>
<tr>
<td>GEO 4502</td>
<td>Economic Geography</td>
<td>4</td>
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<tr>
<td>GEO 4604</td>
<td>Advanced Urban Geography</td>
<td>4</td>
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<tr>
<td>GEO 4700</td>
<td>Transportation Geography</td>
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<tr>
<td>URP 4052</td>
<td>Urban and Regional Planning</td>
<td>4</td>
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<tr>
<td>GYE 3606</td>
<td>Community Services for Older Adults</td>
<td>3</td>
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<tr>
<td>AMH 3423</td>
<td>Modern Florida</td>
<td>4</td>
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<tr>
<td>AMH 3500</td>
<td>American Labor History</td>
<td>4</td>
</tr>
<tr>
<td>AMH 3530</td>
<td>Immigration History</td>
<td>4</td>
</tr>
<tr>
<td>AMH 3572</td>
<td>African American History since 1865</td>
<td>3</td>
</tr>
<tr>
<td>HIS 3930</td>
<td>Special Topics: The City in History</td>
<td>3</td>
</tr>
<tr>
<td>HIS 3930</td>
<td>Special Topics: The History of Tampa</td>
<td>3</td>
</tr>
<tr>
<td>HIS 3930</td>
<td>Special Topics: The History of St. Petersburg</td>
<td>3</td>
</tr>
<tr>
<td>AMS 3700</td>
<td>Racism in American Society</td>
<td>3</td>
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### Interdisciplinary Social Sciences

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>ISS 4162</td>
<td>The City and Urbanization</td>
<td>3</td>
</tr>
<tr>
<td>ISS 4164</td>
<td>Urban Social Issues: An Interdisciplinary Approach</td>
<td>3</td>
</tr>
</tbody>
</table>


**COLLEGE OF ARTS AND SCIENCES**

**UNIVERSITY OF SOUTH FLORIDA - 1999/2000 UNDERGRADUATE CATALOG**

**Political Science**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
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<tbody>
<tr>
<td>POS 2112</td>
<td>State and Local Government and Politics</td>
<td>3</td>
</tr>
<tr>
<td>POS 3145</td>
<td>Governing Metropolitan Areas</td>
<td>3</td>
</tr>
<tr>
<td>POS 4165</td>
<td>Community Leaders and Politics</td>
<td>3</td>
</tr>
<tr>
<td>POS 3931</td>
<td>Special Topics: Politics of St. Petersburg</td>
<td>3</td>
</tr>
<tr>
<td>PUP 3313</td>
<td>Blacks in the American Political System</td>
<td>3</td>
</tr>
<tr>
<td>PUP 4002</td>
<td>Public Policy</td>
<td>3</td>
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<tr>
<td>POS 5155</td>
<td>Issues of Urban Government and Politics</td>
<td>3</td>
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**Psychology**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>SOP 4714C</td>
<td>Environmental Psychology</td>
<td>3</td>
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**Public Administration**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>PAD 3003</td>
<td>Introduction to Public Admin.</td>
<td>3</td>
</tr>
<tr>
<td>PAD 4204</td>
<td>Public Financial Admin.</td>
<td>3</td>
</tr>
<tr>
<td>PAD 5333</td>
<td>Concepts and Issues in Public</td>
<td>3</td>
</tr>
<tr>
<td>PAD 5807</td>
<td>Administration of Urban Affairs</td>
<td>3</td>
</tr>
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</table>

**Social Work**

<table>
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<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>SOW 3203</td>
<td>The American Social Welfare System</td>
<td>3</td>
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**Sociology**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>SYO 3120</td>
<td>Sociology of Families</td>
<td>3</td>
</tr>
<tr>
<td>SYO 3530</td>
<td>Social Stratification</td>
<td>3</td>
</tr>
<tr>
<td>SYD 3700</td>
<td>Racial and Ethnic Relations</td>
<td>3</td>
</tr>
<tr>
<td>SYP 4510</td>
<td>Sociological Aspects of Deviance</td>
<td>3</td>
</tr>
<tr>
<td>SYP 4530</td>
<td>Sociology of Juvenile Delinquency</td>
<td>3</td>
</tr>
</tbody>
</table>

IV. INTERSHIPS (1 of the following can be substituted as an ELECTIVE)

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CCJ 4940</td>
<td>Internship for Criminal Justice Majors</td>
<td>3</td>
</tr>
<tr>
<td>HUM 4941</td>
<td>Study on Location</td>
<td>3</td>
</tr>
<tr>
<td>IDS 4942</td>
<td>CEL Community Internship</td>
<td>3</td>
</tr>
<tr>
<td>IDS 4956</td>
<td>CEL International Community Internship</td>
<td>3</td>
</tr>
<tr>
<td>POS 4941</td>
<td>Field Work</td>
<td>3</td>
</tr>
<tr>
<td>SYA 4949</td>
<td>Sociological Internship</td>
<td>3</td>
</tr>
</tbody>
</table>

Information and advice about the certificate program may be obtained from Robin R. Jones. Call 813-674-8452 or email jones@chuma1.cas.usf.edu. The Office is located in SOC 102.

**HEALTH PROFESSIONS**

The University of South Florida is an excellent location to prepare for a health profession. The Veterans Administration Hospital, University of South Florida Medical Center, Shriner’s Hospital for Crippled Children, H. Lee Moffitt Cancer Center and Research Institute, University of South Florida Mental Health Institute, and University Community Hospital are within walking distance of the campus and offer students excellent opportunities for observation, research, and experience.

The College of Arts and Sciences offers programs designed to prepare students for admission to professional schools of medicine, osteopathic medicine, dentistry, chemistry, podiatric medicine, and veterinary medicine. All of these professional schools have in common the following course requirements, which should be completed by the end of the junior year, the usual time of application:

**Biology:**

- CHB 2010, 2010L (3,1)  BSC 2011, 2011L (3,1)

**Chemistry:**

- CHM 2045 (3)  or  PHY 2049 (3)
- CHM 2045L (3)  or  PHY 2048L (3)
- CHM 2046 (3)  or  PHY 2054 (3)
- CHM 2046L (3)  or  PHY 2054L (3)
- CHM 2047 (3)  or  PHY 2054L (3)
- CHM 2047L (3)  or  PHY 2054L (3)

In addition to these requirements it is generally expected that preprofessional students will complete two semesters of English and mathematics appropriate for their degree. Some schools require calculus and some require one or two courses in biochemistry. CLEP credit usually is not acceptable to professional schools.

The following courses are recommended by some professional schools:

**Biology:**

- MCB 3030C (4)  PCB 3023, 3023L (3,1)
- MCB 3030, 3030L (3,1)
- PCB 5235 (3)  ZOO 2713C (4)
- ZOO 4603 (4)  ZOO 4753C (4)

**Chemistry:**

- BCB 3023 (3)  BCB 4034 (3)  CHM 3120C (4)
- CHM 3400 (3)  CHM 3401 (3)

An early admission program has been established in affiliation with the University of South Florida College of Dentistry, which would allow students to be admitted to dental school after three years at the University of South Florida, completing a baccalaureate degree and dental school in a total of seven years. In order to be eligible for early admission to the College of Dentistry, a high school student must be accepted by the University of South Florida and must meet the following requirements: overall high school gpa of no less than 3.5, as computed by the University of Florida; total SAT of no less than 1260, or ACT of no less than 29; high school science gpa of no less than 3.5 with courses completed in both biology and chemistry, apply during the senior year of high school and be

**Public Administration**

- PAD 5807 Administration of Urban Affairs 3

**Public Administration**

- PAD 5807 Administration of Urban Affairs 3
approved for admission by the College of Dentistry Admission Committee following a formal interview. Following admission into the joint program, final acceptance to the College of Dentistry is contingent upon the student completing all required courses; earning a GPA of no less than 3.4 for all courses attempted and no less than 3.2 for courses in biology, chemistry, physics, and mathematics; and completing the Dental Admissions Test with a score of no less than 16 on each section of the test. It is also possible for students to apply for early admission during the freshman and sophomore years at the University of South Florida. Additional information is available in the Science Advising Center.

Pre-optometry Program
Optometry schools differ somewhat in requirements, but all optometry schools require at least two years of pre-optometry studies, and most schools require the following courses:

**Biology:**
- BSC 2010, 2010L (3,1)
- BSC 2011, 2011L (3,1)
- MCB 3030C (4)

**Chemistry:**
- CHM 2045 (3)
- CMH 2045L (1)
- CMH 2046 (3)
- CMH 2046L (1)
- CMH 2210 (3)
- CMH 2210L (2)
- CMH 2211 (3)
- CMH 2211L (2)

**Mathematics:**
- MAC 2233 (4)
- STA 2023 (4) or STA 2122 (3)

**Physics:**
- PHY 2053 (3)
- PHY 2053L (1)
- PHY 2054 (3)
- PHY 2054L (1)

Most schools require at least one semester of psychology (PSY 2012). Students should check requirements of individual schools and complete requirements for those schools where they plan to apply for admission.

A joint program between USF and Nova-Southeastern University College of Optometry allows students to complete a baccalaureate degree and doctor of optometry degree in a seven-year program. Freshmen may apply for the joint program by applying for admission to USF and also applying for admission to Nova-Southeastern. To be eligible for admission, students must meet all admission requirements for USF, and in addition must have an SAT minimum score of 1100, an ACT minimum of 25 or an EACT minimum of 27; a minimum high school GPA of 3.3; three years of high school science including biology and chemistry; and high school mathematics through algebra and trigonometry. One admitted to the program students must earn a minimum GPA of 3.0 each term and satisfactorily complete required courses and the Optometry Admissions Test. Students must be Florida residents by the time they enter Nova-Southeastern.

Pre-veterinary Medicine Program
The pre-veterinary medicine program meets admission requirements of the University of Florida College of Veterinary Medicine, the only veterinary school in the state. Admission into veterinary school is highly selective, and to be competitive students should obtain experience working with animals, preferably through employment with a veterinarian. Pre-veterinary students should complete a degree in the major of their choice while including the following entrance requirements:

**Biology:**
- BSC 2010, 2010L (3,1)
- BSC 2111, 2111L (3,1)
- MCB 3030C (4)
- PCB 3063, 3063L (3,1)

**Chemistry:**
- CHM 2045 (3)
- CMH 2045L (1)
- CMH 2046 (3)
- CMH 2046L (1)
- CMH 2210 (3)
- CMH 2210L (2)
- CMH 2211 (3)
- CMH 2211L (2)
- BCH 3023 (3)

**Mathematics:**
- MAC 2233 (4)
- MAC 2234 (4) or MAC 2311 (4)
- STA 2023 (4)

**Physics:**
- PHY 2053 (3)
- PHY 2053L (1) or PHY 2048 (3)
- PHY 2048L (1)
- PHY 2054 (3)
- PHY 2049 (3)
- PHY 2054L (1) or PHY 2049L (1)

It is required that students have a minimum of 80 hours including 6 hours of English composition, 6 hours of social science, 9 hours of humanities, and 8 hours of animal science courses, which must be completed at the University of Florida. Recommended courses are ZOO 2713C (4), ZOO 4603 (4), and PCB 4723, 4723L (3,1).

B.A. Degree for Early Admission Students
Early admission to professional school is exceptional with today's competitive applicant pool; however, a few students may be admitted prior to completion of the bachelor's degree through special programs such as those described above or the University Honors Program.

Students who are admitted to an accredited U.S. medical or dental school after completing their junior year at the University of South Florida may be awarded the B.A. degree in Interdisciplinary Natural Sciences from the College of Arts and Sciences subject to the following conditions:
1. Transfer of a minimum of 30 semester hours in science courses from an accredited medical or dental school.
2. Fulfillment of the following minimum requirements in attendance at the University of South Florida:
   a. 90 hours with at least a "C" average (2.000).
   b. Completion of a minimum of 24 hours in the department of major concentration and a minimum of 16 hours in supporting courses in sciences outside the department of major concentration. The 24 hours in the department of major concentration must be in courses applicable to a major in that department. The 16 hours in supporting courses must also be in courses applicable to a major in that department and must include a minimum of two courses at the 3000 level or above. At least a "C" must be earned in each course in both major concentration and supporting courses.
3. Credit in the following courses:
   **Biology:**
   - BSC 2010, 2010L (3,1)
   - BSC 2111, 2111L (3,1)
   **Chemistry:**
   - CHM 2045 (3)
   - CHM 2045L (1)
   - CHM 2046 (3)
   - CHM 2046L (1)
   - CHM 2210 (3)
   - CHM 2210L (2)
   - CHM 2211 (3)
   - CHM 2211L (2)
   **Mathematics:**
   - MAC 2233 (4)
   - PHY 2053 (3)
   - PHY 2053L (1) or PHY 2048 (3)
   - PHY 2048L (1)
   - PHY 2054 (3)
   - PHY 2049 (3)
   - PHY 2054L (1) or PHY 2049L (1)
4. A minimum of 20 credits from the following courses:
   **Biology:**
   - MCB 3030C (4)
   - PCB 3023, 3023L (3,1)
   - PCB 3063, 3063L (3,1)
   - PCB 4723, 4723L (3,1)
   - PCB 5235 (3)
   - ZOO 2713C (4)
   - ZOO 4603 (4)
   - ZOO 4753C (4)
   **Chemistry:**
   - BCH 3023 (3)
   - CHM 3120C (4)
   - CHM 3401 (3)
   **Mathematics:**
   - MAC 2233 (4)
   - MAC 2234 (4) or MAC 2311 (4)
   - STA 2023 (4) or MAC 2312 (4)
5. Completion of the University Liberal Arts requirements and foreign language requirement for the B.A. degree.
6. The last 30 credit hours prior to transfer to a medical or dental school in residence at the University of South Florida. Application for the baccalaureate degree must be received no later than two years from the date of entrance into the professional school.

Students admitted to professional schools of veterinary medicine, optometry, or pediatriic medicine prior to completion of their degree may also be able to transfer courses from the professional school and receive their bachelor's degree. However, approval of the courses to be transferred must be obtained on an individual basis from the College of Arts and Sciences, and in some cases it may be necessary for students to complete more than 90 hours prior to leaving the University of South Florida.

Prerequisites (State Mandated Common Prerequisites)

Students are encouraged to complete the A.A. degree and include the following courses, if available, during the program of study at the community college:

- One year each, if offered, of:
  - General Biology
  - General Chemistry
  - Organic Chemistry

Depending upon the professional school, additional science courses may be required or strongly recommended as indicated in the preceding sections. Exposure to a health profession is also strongly recommended.

There are no State Mandated Common Prerequisites for this degree program.

TEACHER EDUCATION PROGRAMS

The College of Arts and Sciences offers B.A. and M.A. degree programs for secondary school teachers and the M.A. degree for junior college teachers.

B.A. Degree Program for Secondary School Teachers

The College of Arts and Sciences in cooperation with the College of Education offers degree programs in Mathematics (MAE), in Biology (NSB), in Chemistry (NSC), in Physics (NSP) and in Social Science Education (SSE). Because requirements exist in both colleges, a student will have an advisor in each college. At the outset, the planned courses in mathematics and science must be approved by the student’s advisor in the College of Arts and Sciences.

There are two options available to the student to satisfy the science portion of the program:

1. The student may complete the requirements of the departmental major. The departmental requirements of Biology, Chemistry, Mathematics, and Physics are found in this section of this catalog under the respective headings in Biology, Chemistry, Mathematics, and Physics.

2. The student may complete requirements of the Interdisciplinary Natural Sciences major with concentration in Biology, Chemistry, Physics, and Mathematics. A complete description of this major is found in this section of this catalog under the heading Interdisciplinary Natural Sciences.

Prospective students should consult the College of Education portions of this catalog under the heading “Science Education (SCE)” or “Social Science Education (SSE)” for the required education courses and sample programs.

PROGRAMS AND CURRICULA

AFRICANA STUDIES (AFA)

Africana Studies is a liberal arts program which offers both a major and a minor. This program provides all students with the opportunity (1) to study the history, culture, and lived experiences of people of African descent in the United States, Africa, the Caribbean, and elsewhere; (2) to study the influence of Africa and people of African descent on world and U.S. thought, culture, and politics; (3) to study the social construction and consequences of race and racism; (4) to develop needed critical thinking skills to address the often narrow and Eurocentric bias in the current knowledge base; and (5) to examine their personal experiences, prejudices, and possible contributions in a multi-racial, multi-cultural society.

Students who major or minor in Africana Studies have the option of emphasizing African-American Studies (including the Caribbean), African Studies, or both. Admission to the Africana Studies major or minor is open to all students who have been duly admitted to the University of South Florida.

- Requirements for the Major in Africana Studies

The major in Africana Studies consists of a minimum of 36 hours. Students may choose an area of emphasis in African-American Studies, African Studies, or Africana Studies (both). The requirements for the majors are as follows:

**Required Core Courses for all areas (15 cr. hours):**
- AFA 2000 (3)
- AHF 3200 (3)
- AMH 3572 (3)
- AFA 3100 (3)
- AMH 3571 (3)

**Required Electives (select 21 cr. hours):**

**African-American Studies (suggested):**
- AFA 4331 (3)  ANT 4340 (3)  PUP 3313 (3)
- AFA 4335 (3)  AML 3604 (3)  HUM 2420 (3)
- AMS 3700 (3)  PHM 4120 (3)  AFA 4931 (1-3)
- SPC 3710 (3)  AML 4303 (3)

**African Studies (suggested):**
- AFS 2250 (3)  CPO 4244 (3)  INR 4254 (3)
- AFS 4150 (3)  INR 4254 (3)  PHI 4073 (3)
- CPO 4204 (3)  HUM 2420 (3)  AFA 4931 (1-3)
- AFS 3284 (3)

**Africana Studies (suggested):**
- AFA 4331 (3)  ANT 4340 (3)  PHI 4073 (3)
- AFA 4335 (3)  AML 4304 (3)  PHM 4120 (3)
- AFS 2250 (3)  CPO 4244 (3)  INR 4254 (3)
- AFA 4331 (3)  AMH 3571 (3)  or AMH 3572 (3)
- SPC 3710 (3)  AFS 3284 (3)
- AFS 4335 (3)  AML 4303 (3)

- Requirements for the Minor in Africana Studies

The minor in Africana Studies requires a minimum of 18 credit hours. As in the major, students may choose an area of emphasis in African-American Studies, African Studies, or Africana Studies (both). The requirements for the minor are as follows:

**Africana Studies (Minimum of 18 hours):**

**Required Core Courses (select 9 cr. hours):**
- AFA 2000 (3)  AHF 3200 (3)  or AFH 3200 (3)
- AHF 3572 (3)  or AMH 3572 (3)

**Required Electives (select 9 cr. hours):**
- AFA 4033 (3)  AML 3604 (3)  HUM 2420 (3)
- AFA 4150 (3)  INR 4254 (3)  PHI 4073 (3)
- AMS 3700 (3)  PHM 4120 (3)  AFA 4931 (1-3)
- ANT 4340 (3)  PUP 3313 (3)  CPO 4204 (3)
- SPC 3710 (3)

**African-American Studies (Minimum of 18 hours):**

**Required Core Courses (9 cr. hours):**
- AFA 2000 (3)  AMH 3572 (3)

**Required Electives (select 9 cr. hours):**
- AFA 4033 (3)  AFA 4931 (1-3)  ANT 4340 (3)
- AFA 4150 (3)  AMH 3572 (3)  PUP 3313 (3)
- AFA 4331 (3)  AMH 3572 (3)  PHM 4120 (3)
African Studies (Minimum of 18 hours)
Required Core Courses (select 9 cr. hours)
AFH 3100 (3) CPO 4204 (3)
AFH 3200 (3) INR 4254 (3)
Required Electives (select 9 cr. hours)
AFH 4140 (3) CPO 4244 (3) PHI 4073 (3)
AFH 4931 (1-3) HUM 2420 (3) AFS 3284 (3)
AFS 3284 (3) INR 4254 (3)

Prerequisites (State Mandated Common Prerequisites)
Complete the A.A. degree at the community college. Some courses required for the major may also meet General Education Requirements thereby transferring maximum hours to the university. If you transfer without an A.A. degree and have fewer than 60 semester hours of acceptable credit, you must meet the university’s entering freshman requirements including ACT or SAT test scores, GPA, and course requirements.

Students are encouraged to complete the following prerequisites, or major, support, or elective courses if available, during the program of study at the community college, and when feasible in General Education/Gordon Rule courses. Ant 2000 Introduction to the Black Experience, In Africa & Its Diaspora, and Afro-American History I and II are shown below.

AFA 2000 Introduction to the Black Experience
AFS 2250 Culture and Society in Africa
AMH 3571 Afro-American History I
AMH 3572 Afro-American History II

There are no State Mandated Common Prerequisites for this degree program.

Please be aware of the immunization, foreign language, and continuous enrollment policies of the university. This is a non-visit access program with the above courses recommended.

ANTHROPOLOGY (ANT)

Anthropology aims at comprehending people as biological and social beings. It is concerned with all forms of people through time and space. One consequence of this broad ranging view is the presence within anthropology of four branches: physical anthropology, archaeology, cultural anthropology, and linguistics. Exposure to anthropological information and the cross-cultural perspective produces heightened sensitivity in the student to the world about him/her. This helps the student to adopt an intellectual posture of disciplined skepticism with respect to any scheme which purports to define and account for regularities in human life. In 1986 the department instituted an honors program to provide its best students with an opportunity to engage in a significant academic experience. Outstanding seniors may participate in a year-long course of study and original research in an area of their choosing under the guidance of a faculty mentor.

Students majoring in other fields may find anthropology coursework an exciting and valuable supplement to their primary academic interest. A minor in anthropology has been developed with this purpose in mind. The minor program is structured to allow the student maximum flexibility in course selection within a broadly defined progression of anthropological concerns. Thus, the student is able to tailor a minor in anthropology to best suit special wants and needs in the context of an overall curriculum.

The Center for Applied Anthropology is concerned with applying anthropological knowledge, theory, method, and perspectives to problems of contemporary society. Illustrative areas of activity include human services needs assessment, program planning and evaluation, social and environmental impact assessment, and public policy analysis.

Requirements for the Major in Anthropology

The major in Anthropology consists of a minimum of 33 credit hours. ANT 2000 is prerequisite to all subsequent courses. ANT 3101, ANT 2410, ANT 2511 and ANT 3610 are required as intermediate level training in the main subdivisions of the field, and ANT 4034 and ANT 4935 complete the specific requirements. Majors are required to complete a minimum of 12 hours of 4000-level elective coursework, including courses from at least three of the four subfield areas shown below.

Archaeology
ANT 4153 (3) ANT 4180 (4) ANT 4124 (4)
ANT 4162 (3) ANT 4181 (4) ANT 4158 (4)
ANT 4172 (3) ANT 4163 (3)

Physical Anthropology
ANT 4520 (3) ANT 4552 (3) ANT 4583 (3)
ANT 4587 (3)

Anthropological Linguistics
ANT 4620 (3) ANT 4750 (3)

Cultural Anthropology
ANT 4226 (3) ANT 4312 (3) ANT 4442 (3)
ANT 4231 (3) ANT 4316 (3) ANT 4462 (3)
ANT 4241 (3) ANT 4324 (3) ANT 4495 (3)
ANT 4302 (3) ANT 4340 (3) ANT 4705 (3)
ANT 4305 (3) ANT 4432 (3) MUH 4054 (3)

Anthropology majors are urged to become competent readers and speakers of a relevant foreign language, to acquire communicative and quantitative skills appropriate to their interests, and to achieve at least a minimal level of computer literacy. Exceptions to course prerequisites require the consent of the instructor.

Required Core Courses (21 cr. hrs.)
ANT 2000 (3) ANT 2511 (3) ANT 4034 (3)
ANT 3101 (3) ANT 3610 (3) ANT 4935 (3)
ANT 2410 (3)

Requirements for the Minor in Anthropology

The minor in Anthropology consists of a minimum of 18 credit hours with a "C" average (2.0), distributed among three areas. Students will normally progress through these areas in the order listed below, selecting courses prerequisite or otherwise appropriate to courses desired in subsequent areas. Exceptions to this pattern must be approved by the department’s undergraduate advisor. Students are urged to consult with the major and minor student advisors to create the most beneficial specific set of courses.

1. 2000-level required core course (3 cr. hrs.)
ANT 2000 (3)

2. Intermediate level core courses (3-6 cr. hrs.)
ANT 2410 (3) ANT 3101 (3) ANT 2511 (3)
ANT 3610 (3)

3. 4000-level elective courses (9-12 cr. hrs.) (as described above)

Requirements for the Anthropology Honors Program

The purpose of the Honors Program is to provide outstanding Anthropology undergraduates with advanced, individually tailored training in areas of anthropology of interest to them. The program, operating independently of the major itself, involves a year of coursework and research culminating in the writing of an Honors thesis. Students in the second semester of their Junior year, prior to completion of 90 semester hours, may apply to the program, which begins in the Fall semester. Admission is competitive, based on the student’s overall academic record (minimal 3.0 GPA overall, 3.5 GPA for USF anthropology course work) and a letter of recommendation from a member of the Department of Anthropology. Successful completion of the program requires maintenance of a 3.0 overall and a 3.5 major GPA levels, completion of ANT 4932 (4) (Honors Seminar) with a grade of “B” or better, completion of ANT 4970 (3) (Honors Thesis) with a grade of “S” and completion of all other requirements for graduation. See the Anthropology Department Undergraduate Advisor for further information and application forms.
Prerequisites (State Mandated Common Prerequisites)

To transfer to USF, students should complete the A.A. degree at the community college. Some courses required for the major may also meet General Education Requirements thereby transferring maximum hours to the university. A minimum of 60 semester hours must be completed at the university unless prior approval is secured. If students transfer without an A.A. degree and have fewer than 60 semester hours of acceptable credit, the students must meet the university’s entering freshman requirements including ACT or SAT test scores, GPA, and course requirements. The transfer student should also be aware of the immunization, foreign language, and continuous enrollment policies of the university.

Students should complete two lower level, introductory courses in Anthropology prior to entering the University. If not taken at the community college, they must be completed before the degree is granted. A grade of “C” is the minimum acceptable grade.

**BACHELOR OF INDEPENDENT STUDIES (BIS)**

The Bachelor of Independent Studies (BIS) Program is the State University System External Degree Program. The universities currently involved are Florida International University, Florida State University, the University of Florida, the University of North Florida, and the University of South Florida. The administrative office for the statewide program is located at USF in Tampa.

Founded in 1968, the external degree program is for adults who find it difficult to attend regular university classes because of career or family commitments. The BIS student proceeds at his/her own pace and, for the most part, in his/her own setting. The exception is the summer seminars which require periodic, short-term campus residence.

**Curriculum**

The curriculum consists of four study areas: the Humanities, Natural Sciences, Social Sciences and an Area Study. The first three areas of study are completed through a tutorial and a resident seminar. While the seminar is of short duration, the tutorial for each area requires a longer commitment of time. The student may begin in any of the first three study areas and is encouraged to start in his/her area of strength.

**Tutorials**

The tutorial or guided independent study is predominantly print intensive, with core and suggested readings drawn from the BIS Guide to Independent Studies. In the Humanities tutorial, for example, the student reads across the disciplines of the Humanities Study Area which include Language, Literature, Philosophy, Art, Drama, and Architecture. Selected works are reviewed within the framework of historical periods. Tutorial objectives include knowledge of the basic principles of each of the genres and periods, the ability to visualize relationships between the disciplines, grasp of the nomenclature of the disciplines, and the capacity to apply basic concepts to current issues. The student is responsible for systematic interaction with the faculty mentor who directs the reading process and evaluates the student’s progress.

In the Natural Sciences tutorial, the BIS learner studies Science -- Science for the non-scientist. Emphasis is placed on the interrelationships of the disciplines of Science. Topics illustrative of this interdisciplinary approach to Sciences include Mathematics, Physics, Chemistry, Biology, Astronomy, Geology, Ecology, History, and Philosophy of Science, and the impact of Science on Technology. As is the case with other tutorials the learning objectives involve concepts, nomenclature, cross-disciplinary insights, and application of concepts/methods to current issues.

In the Social Sciences tutorial, the student reads selected core and supplementary reading and completes written projects in each of the basic disciplines of the Social Science Study Area. These include Anthropology, Economics, Geography, History, Political Science, Psychology, Women's Studies, and Sociology. Tutorial objectives include knowledge of the basic concepts and principles of each discipline, familiarity with major social science research techniques, understanding of the relationships among the different disciplines, and the ability to apply disciplinary or interdisciplinary concepts/models to current issues.

Following each tutorial, the student completes a comprehensive examination in order to demonstrate that a satisfactory level of proficiency has been attained in the independent study component of a particular area. The exam may be taken on or off campus. A research paper is also undertaken in each of the tutorials. It is normally done at the end of a tutorial.

**Seminars**

Students are required to attend two-week long seminars on the USF campus. There is a seminar for each of the first three study areas (Humanities, Natural Sciences, and Social Sciences). Each seminar represents a period of intensive residential learning under the direction of a team of faculty members. Seminar teams identify the subject matter and activities of each seminar. Humanities seminars, for example, are often theme-oriented but the focus is on interdisciplinary concerns. A number of historical periods may be approached through discussion of art, music, literature, and architecture. In a Natural Sciences seminar, the focus is on an interdisciplinary approach to learning about Science. Social Sciences seminar faculty focus on the knowledge gained in the tutorial with an emphasis on synthesis, extension, and application of this learning to selected topics such as energy, patterns of human behavior, and human rights.

Seminar activities also vary with the study area. A visit to a museum or art gallery goes with a Humanities Seminar. In Science, laboratory experiences and field trips are utilized to show students the ways of Science and to allow them to experience the excitement of discovery. Many of the activities described in a Social Sciences seminar syllabus are used in other seminars as well, i.e., lectures by faculty team members or guest lecturers, presentations by group members, group discussion, library research, learning journals, and a research paper.

Students in all seminars may be asked to read materials related to the seminar theme prior to the seminar and to complete written assignments after the completion of the two-week seminar period. Seminars meet for two consecutive six-day weeks and activities take up a full day. Further study and assignments occupy the evening hours.

**Undergraduate Thesis**

The fourth study area or Inter-area Study calls for a synthesis of the first three study areas via the preparation and defense of an undergraduate thesis. The student begins the Area with Inter-area reading leading to the completion of an undergraduate thesis prospectus under the direction of a primary adviser. Following approval of the prospectus by a committee composed of three faculty, the student writes the study under the direction of the committee chairperson. The final step is to complete successfully an oral examination on the thesis.

**Admission Procedures**

Applicants must qualify for admission to the University of South Florida and for admission to the B.I.S. Program. The USF Director of Admissions rules on the admission of an applicant to the University. The BIS Committee rules on admission of an applicant to the B.I.S. Program. BIS applicants typically welcome the challenge of liberal studies and the rigor of independent study. BIS students pay regular USF tuition for undergraduate students.

**Mechanisms for Recognizing Prior Learning**

Individuals with an A.A. degree from a State of Florida
community or junior college, and Registered Dental Hygienists, Registered Nuclear Medicine Technologists, Registered Nurses, Registered Radiologic Technologists, and Registered Respiratory Therapists with an A.S. degree from a state-approved program qualify for a "two-plus-two interface" with BIS requirements. In other words, those with an appropriate associate's degree complete two substantive study areas involving two tutorials and two seminars. The two study areas (Social Sciences & Natural Sciences or Humanities & Social Sciences or Natural Sciences & Humanities) are stipulated by the BIS Committee. The BIS Committee normally picks the two areas in which a student has the least background.

The Program is academically responsible to the Dean of the College of Arts and Sciences. The BIS Committee is advisory to the Provost.

For further information, contact the State University System, External Degree Program, Bachelor of Independent Studies (BIS) located at HMS 443, University of South Florida, Tampa, Florida 33620-8400. Telephone: 813-974-4058. E-mail: bis@luna.cas.usf.edu

Prerequisites (State Mandated Common Prerequisites)

Students wishing to transfer to USF should complete the A.A. degree at the community college. Some courses required for the major may also meet General Education Requirements thereby transferring maximum hours to the university. If students transfer without an A.A. degree and have fewer than 60 semester hours of acceptable credit, the students must meet the university's entering freshman requirements including ACT or SAT test scores, GPA, and course requirements.

There are no State Mandated Common Prerequisites for this degree program.

Biology (BIO/MIC)

Two specific Bachelor of Science degrees, Biology and Microbiology, are available for students interested in the biological sciences. The B.S. in Biology allows students to concentrate in such areas as Ecology, Cell & Molecular Biology, Physiology, and Marine Biology. The degree is preparatory for careers in such areas as teaching, agriculture, medicine, dentistry, conservation, and biotechnology, or for post-baccalaureate study in the various life sciences. The B.S. in Microbiology provides students with the broad range of courses necessary to qualify for certification by the National Registry of Microbiologists, American Society of Microbiology, and employment in microbiology and related fields.

In addition to a set of courses in biology, students must have a thorough preparation in other areas of natural sciences to be competitive for jobs or for further study beyond the baccalaureate. A modern biology curriculum is built on a foundation of mathematics, chemistry and physics. Students should study the requirements listed below and then make maximum use of the vigorous advising program maintained by the Department in structuring their programs. See the Undergraduate Program Assistant for further details of advising.

1. Requirements for the Biology B.S. Major (BIO)
   a. Department of Biology Courses - minimum 40 credit hours
      i. BSC 2010, BSC 2010L, BSC 2011, BSC 2011L
      ii. PCB 3023, PCB 3043, and PCB 3063
      iii. ONE of the following: PCB 3023L, PCB 3043L, or PCB 3063L
      iv. ONE of the following (with laboratory): BOT 3373C, MCB 3030C, ZOO 3205C, ZOO 3323C, ZOO 4603C, or ZOO 4753C
      v. ONE of the following (with laboratory): BOT 4503, MCB 4404, or PCB 4723
      vi. The remaining credit hours to meet the minimum requirements must come from among structured departmental courses that are applicable to the major and BCH 3023. At least eight (8) of these credit hours must be at the 4000 level or higher.
   b. A maximum of four (4) credit hours of Undergraduate Research (BSC 4910) or Biology Honors Thesis (BSC 4970) may be applied.
   c. A minimum of 20 hours of Biology courses must be taken in residency and be applicable to the major.

2. Supporting Courses in the Natural Sciences - minimum 34 credit hours
   a. CHM 2210, CHM 2210L, CHM 2211, and CHM 2211L
   b. MAC 2233 and MAC 2234
   c. MAC 2233 and MAC 2234 OR MAC 2281 and MAC 2282
   d. PHY 2048, PHY 2048L, PHY 2049, and PHY 2049L OR PHY 2053, PHY 2053L, PHY 2054, and PHY 2054L

3. Liberal Arts Courses - minimum 45 credit hours
4. Free Elective Courses needed to complete 120 credit hours

Prerequisites (State Mandated Common Prerequisites)

Students should complete the following prerequisite courses listed below at the lower level prior to entering the University. If these courses are not taken at the community college, they must be completed before the degree is granted. Unless stated otherwise, a grade of "C" is the minimum acceptable grade.

BSC 1010/1010L Introduction to Biology I-Cellular Processes (with lab)
   Acceptable substitutes: PCB X010, PCB X011, PCB X021, PCB X131, BSC X040, BSC 2012

BSC 1011/1011L Introduction to Biology II-Diversity (with lab)
   Acceptable substitutes: ZOO X010, BOT X010, BSC X041, BOT X013

CHM 1045/1045L General Chemistry I (with lab)
   Acceptable substitutes: ZOO X010, BOT X010, BSC X041, BOT X013

CHM 2210/2210L Organic Chemistry I (with lab)
   Acceptable substitutes: PHY 2043/2043L, PHY 2048/2048L, PHY 2049/2049L, or equivalent

MAC X311 Calculus I
   Acceptable substitutes: MAC 2233, MAC 2253, MAC X281

MAC X312 Calculus II
   Acceptable substitutes: STA 2122, 2014, 2023, 2034, 2321 or equivalent; MAC 2234, 2254, 3282

Please be aware of the immunization, foreign language, and continuous enrollment policies of the university. This is a non-limited access program with the above courses recommended.

1. Department of Biology Courses - minimum 42 credit hours
   a. BSC 2010, BSC 2010L, BSC 2011, BSC 2011L
   b. PCB 3023, PCB 3023L, PCB 3043, and PCB 3063
   c. MCB 3030, MCB 4115, MCB 4404, and MCB 4404L
   d. Ten (10) hours from the following list: BOT 4434, MCB 4502, MCB 4652, MCB 4910, MCB 4934, MCB 5206, MCB 5815, PCB 5235, ZOO 5235, BCH 3023L
   e. A maximum of four (4) credit hours of Undergraduate Research (MCB 4910) or Biology Honors Thesis (BSC 4970) may be applied.
   f. A minimum of twenty (20) hours of Biology courses must be taken in residency and be applicable to the major.
2. Supporting Courses in the Natural Sciences - minimum 37 credit hours
   a. CHM 2041, CHM 2045L, CHM 2046, and CHM 2046L
   b. CHM 2210, CHM 2210L, CHM 2211, and CHM 2211L
   c. MAC 2233 and MAC 2234 OR MAC 2281 and MAC 2282
      OR MAC 2311 and MAC 2312 OR MAC 2333 and STA 2023
   d. PHY 2048, PHY 2048L, PHY 2049, and PHY 2049L OR
      PHY 2053, PHY 2053L, PHY 2054, and PHY 2054L
   e. BCH 3023

3. Liberal Arts Courses - minimum 45 credit hours
4. Free Elective Courses needed to complete 120 credit hours.

Prerequisites (State Mandated Common Prerequisites)

Students should complete the following prerequisite courses listed below at the lower level prior to entering the University. If these courses are not taken at the community college, they must be completed before the degree is granted. Unless stated otherwise, a grade of “C” is the minimum acceptable grade.

BSC 1010/1010L Introduction to Biology I-Cellular Processes (with lab)
   Acceptable substitutes: PCB X010, PCB X011, PCB X021, PCB X131, BSC X040, BSC 2012

BSC 1011/1011L Introduction to Biology II-Diversity (with lab)
   Acceptable substitutes: ZOO X010, BOT X010, BSC X041, BOT X013

CHM 1045/1045L General Chemistry I (with lab)

CHM 1046/1046L General Chemistry II (with lab)

CHM 2210/2210L Organic Chemistry I (with lab)
   Acceptable substitutes: PHY 2043/2043L, PHY 2048/2048L, PHY 2049/2049L, or equivalent

CHM 2211/2211L Organic Chemistry II (with lab)
   Acceptable substitutes: PHY 2053/2053L, PHY 2048/2048L, PHY 2049/2049L, or equivalent

MAC X311 Calculus I
   Acceptable substitutes: MAC 2233, MAC 2253, MAC X281

MAC X312 Calculus II
   Acceptable substitutes: STA 2122, 2014, 2023, 2034, 2321 or equivalent; MAC 2234, 2254, 3282

Please be aware of the immunization, foreign language, and continuous enrollment policies of the university. This is a non-limited access program with the above courses recommended.

Minimum Grade for Majors

A student must receive a “C” grade or better in all Department of Biology courses and Supporting Courses in the Natural Sciences, except if they are used as Free Elective courses. This specification applies to both USF and transfer courses. D and F grades earned in attempting to satisfy major requirements will be used in calculating the GPA, except if they are removed by grade forgiveness.

Biology Honors Program

The Honors Program provides a greater depth and breadth of knowledge to outstanding biology students, provides them an intense research training opportunity, and encourages them to pursue very high academic standards. In addition to satisfying requirements for the Biology or Microbiology degree, successful completion of the program requires a GPA of 3.5 in Department of Biology coursework, an overall GPA of 3.0 in USF coursework, and successful completion of BSC 4931, BSC 4932, and BSC 4402L. The culmination of the Honors Program is the completion and defense of an honors thesis. Invitation to participate in the Program will take place during the spring semester of each academic year. Criteria for selection include, but are not limited to, freshman/sophomore status; A/B in science courses at USF, including BSC 2010; a recommendation from BSC 2010L laboratory instructor. See the Honors Program Coordinator for further details of the program.

CHEMISTRY (CHS/CHM)

The Department of Chemistry awards two degrees at the baccalaureate level, the Bachelor of Arts in Chemistry and the Bachelor of Science in Chemistry, and three degrees at the graduate level, a non-thesis Master of Arts, the Master of Science and the Doctor of Philosophy. Each of the graduate degrees offers specialization in the areas of analytical chemistry, biochemistry, inorganic chemistry, organic chemistry, and physical chemistry. In addition, a Master of Arts degree is offered as part of a carefully integrated accelerated B.A.-M.A. program. The chemistry faculty is comprised of 24 full-time members all of whom hold 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 which can be tailored to fit individual needs while maintaining a sound background in all general aspects of chemistry.

Majors in chemistry are well-prepared to enter a wide range of chemical careers as well as many interdisciplinary activities which are the hallmark of modern science and technology. These include teaching and research in academic, government, and private settings, bio-medical research and clinical practice, environmental activities, materials science, law, business and other professions. The Bachelor of Science is particularly designed for students wishing to continue with graduate training in chemistry and closely-allied disciplines and graduates are certified for membership in the American Chemical Society. The Bachelor of Arts provides opportunities for curricula individually tailored to meet many career objectives.

Requirements for the Majors in Chemistry

A grade of C or better is required in each chemistry course and each supporting course specified for a chemistry degree. All courses in a chemistry program must be taken with letter grade (A, B, C, D, F) except those courses which are graded S/U only. (D and F grades earned in attempting to satisfy chemistry major requirements will be used in calculating the major GPA.) Nine hours of upper-level chemistry courses must be completed at USF.

The required sequence of Chemistry courses should be started immediately in the freshman year and the mathematics and physics requirements should be completed before the junior year so that CHM 3400 Elementary Physical Chemistry I (B.A. degree) or CHM 4410 Physical Chemistry I (B.S. degree) can be commenced by that time. CHM 4410 is a prerequisite to other advanced courses required for the B.S. degree in chemistry. CHM 4060 Use of Chemical Literature also is a prerequisite to several B.S. degree courses.

Liberal Arts Requirement. The student is required to complete the University’s Liberal Arts Requirement. Chemistry and Mathematics courses required for chemistry degrees satisfy the Liberal Arts requirements in the areas of Natural Science and Quantitative Methods.

Free Electives. Courses over and above the required courses should be taken to complete a 120-hour program. Recommended courses are listed in the degree requirements below. Additional courses in computer programming, economics, management, engineering, statistics, writing, and other applied disciplines are strongly recommended to strengthen the degree for subsequent professional employment.

BA in Chemistry (CHM)

The B.A. degree in Chemistry provides a course of study for students whose careers will require a thorough understanding of chemistry required for a variety of professional...
activities such as in health-related professions, science teaching, business, law and other areas. Inherent in this program is a high degree of flexibility which permits tailoring a course of study to the student’s own educational objectives. The B.A. student whose goals change in the direction of graduate study should supplement this curriculum by addition and/or substitution of a selection of advanced courses from the B.S. program.

Required Chemistry Courses
(33 cr. hrs.)

CHM 2045 General Chemistry I (3)
CHM 2045L General Chemistry I Lab (1)
CHM 2046 General Chemistry II (3)
CHM 2046L General Chemistry II Lab (1)
CHM 2210 Organic Chemistry I (3)
CHM 2210L Organic Chemistry I Lab (2)
CHM 2211 Organic Chemistry II (3)
CHM 2211L Organic Chemistry II Lab (2)
CHM 2211L Organic Chemistry II Lab (2)
CHM 3120C Elementary Analytical Chemistry I (4)
CHM 3400 Elementary Physical Chemistry I (3)
CHM 3401 Elementary Physical Chemistry II (3)
CHM 3402L Elementary Physical Chemistry Lab (1)
CHM 3610 Intermediate Inorganic Chemistry I (3)
CHM 3610L Intermediate Inorganic Chem. I Lab (1)

Required Chemistry Electives
(6 cr. hrs.)

Minimum of 12 hrs. of 3000 level or above; may include not more than 1 hr. of CHM 4970.

Suggested courses: BCH 3023, BCH 3023L, CHS 4300, CHM 4060, CHM 4070, CHM 4130, CHM 4611, CHM 4970, CHM 4932*.

*Content varies each semester.

Required Supporting Courses
(22-24 cr. hrs.)

MAC 2281 (3) or MAC 2282 (3)
PHY 2053 (3) PHY 2054 (3)
PHY 2053L (1) PHY 2054L (1)
BSC 2010 (3) PCB 3023 (3)
BSC 2010L (1) PCB 3023L (1)

Other suggested electives important for advanced studies in biochemistry: CHM 4932*, CHM 4070, PCB 3063, PCB 5235, PCB 5525, STA 3023, MCB 3030, MCB 4502, PCB 4253, PCB 5845, EVR 2001.

BA in Chemistry, emphasis for Health Professions (CHM)
A chemistry core is essential for preparation for medical, dental, veterinary and other health-related professions. The B.A. in Chemistry includes this core as well as the flexibility to incorporate the other science courses required for admission to programs in the health professions. The course of study outlined below incorporates the goals for health-related careers.

Required Chemistry Courses
(30 cr. hrs.)

CHM 2045 General Chemistry I (3)
CHM 2045L General Chemistry I Lab (1)
CHM 2046 General Chemistry II (3)
CHM 2046L General Chemistry II Lab (1)
CHM 2210 Organic Chemistry I (3)
CHM 2210L Organic Chemistry I Lab (2)
CHM 2211 Organic Chemistry II (3)
CHM 2211L Organic Chemistry II Lab (2)
CHM 3120C Elementary Analytical Chemistry I (4)
BCH 3023 Introductory Biochemistry (3)
BCH 3023L Basic Biochemistry Lab (2)
CHS 4300 Fundamentals of Clinical Chem. (3)
CHM 4130C Methods of Instrumental Analysis (4)

Required Chemistry Electives
(9 cr. hrs.)

Minimum of 9 hrs. selected from the following:

BCH 3023L Basic Biochemistry Lab (2)
BCH 4034 Advanced Biochemistry (3)*
CHM 3400 Elementary Physical Chemistry I (3)*
CHM 3401 Elementary Physical Chemistry II (3)*
CHM 3610 Intermediate Inorganic Chemistry I (3)*
CHM 4060 Use of the Chemical Literature (1)
BCH 4034 Advanced Biochemistry (3)*
CHM 3610 Intermediate Inorganic Chem. I Lab (1)*

*Content varies each semester.

BS in Chemistry (CHS)
The Bachelor of Science in Chemistry is a rigorous program which supplies the foundation in chemistry required for both the student who begins a chemical vocation immediately upon graduation as well as the one who pursues advanced study in chemistry or related areas. In accord with this goal, the
Combined BA-MA Program Admission

Teacher Education Programs:

Transfer Credit:

Environmental Concentration:

Chemical science is a core component of environmental science both in the analysis of environmental conditions and in the solution of environmental problems. B.A. and B.S. chemistry majors wishing to concentrate on environmental concerns should complete BSC 211C and 210C, GLY 2010 and 2010L, and EVR 2001 and 2001L. Electives that should be considered include GLY 4822, GLY 5246, STA 3023 and EVR 4910.

Transfer Credit:

It is strongly recommended that students transferring from community/junior colleges to the University of South Florida complete whole sequences of chemistry courses, such as general and organic chemistry, before the transfer. Even though courses may carry the same common course number, topics may vary sufficiently from school to school to leave the transfer student ill-prepared to proceed within a sequence.

Teacher Education Programs:

For information concerning the degree programs for secondary school teachers, see College of Education section this Catalog and junior college teachers, see USF Graduate Catalog.

- Combined BA-MA Program Admission

  Regular admission to the program will normally occur towards the end of the sophomore year or early in the junior year, or at transfer from junior college. Students who have completed not less than ten semester credit hours of chemistry courses, and have maintained a "B" average in chemistry courses and overall, may apply. Applications will be considered individually and applicants may be called for interview. Provisional admission may be granted to incoming freshmen whose academic background and performance indicate the likelihood of their meeting the regular requirements in due course. It should be noted that, in view of the heavy research component and orientation of the program, and the limitations of facilities and individual faculty time available for research direction, admission to the program is by no means automatic upon meeting minimum requirements.

Course Requirements

Undergraduate: The B.A. coursework curriculum (q.v.) is augmented as follows:

1. CHM 4410, 4412, and 4130C (or CHS 4310C) replace
   CHM 3400, 3401 and 3402C.

2. Chemistry coursework hours (excluding research) total 42
   credit hours rather than 41.

3. Natural sciences supporting coursework hours total 25
   rather than 24.

Graduate: Not less than 20 credit hours of formal, regularly scheduled chemistry graduate courses, including not less than two of the five core courses (BCH 5065, CHM 5225, CHM 5425, CHM 5621, CHM 6150). At least 10 of the credit hours must be at the 6000 level. The core course requirement may be waived in part or entirely by recommendation of the supervisory committee on the basis of past work, performance on a test, or substitution of more comprehensive and advanced courses.

Research and Thesis

CHM 4970 (12) CHM 6973 and CHM 6971 (10)

To satisfy the research credit hour requirements and to produce results suitable for publication in a refereed scientific journal, it will be necessary for the student to be enrolled during the summers of his junior, senior and graduate years. Completion of the program will require the presentation and formal defense of a research thesis for the master's degree.

Supervision and Promotion

A supervisory committee consisting of two faculty members will be appointed for each student admitted to the program. A carefully planned individual timetable will be worked out and progress will be monitored each semester. Continuation from the junior year into the graduate year will be contingent upon the maintenance of the "B" average in chemistry and overall, and upon satisfactory recommendation by the student's research director. Diagnostic and qualifying examinations will not be required of students in this program. The supervisory committee during the graduate year will consist of three faculty members, including the research director.

Prerequisites (State Mandated Common Prerequisites)

Students should complete the following prerequisite courses listed below at the lower level prior to entering the University. These include two semesters each of General Chemistry lecture and lab, Organic Chemistry lecture and lab, Calculus, and General Physics lecture and lab. If these courses are not taken at the community college, they must be completed before the degree is granted. Unless stated otherwise, a grade of "C" is the minimum acceptable grade.

- CHM 1045C, 1046C, or CHM 1045E
- MAC 2311, 2312, or 2313
- CHM 2045L, 2046L, or 2047L
- PHY 2048L, 2049L, or 2050L

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*Content varies each semester.
COMMUNICATION (SPE)

Communication studies focus on the concepts, theories, and practice of human communication in a variety of contexts. Students apply their understanding of communication research and principles to personal, professional, and community relationships and concerns.

The department encourages students to tailor their program of study to meet their own interests. Majors select from one of three areas of concentration described below.

The Honors Program in Communication allows qualified students to pursue advanced study. A minor in Communication is also available.

- Requirements for the Major in Communication

A major in Communication requires a minimum of 36 credit hours from departmental offerings. A final grade of “D” within a departmental course will not be counted toward a Communication major. Courses may not be taken S/U where a grade option exists. The requirements for the Communication major are:

I. Prerequisites (3 hours)
   This course is a prerequisite for declaring the communication major.
   SPC 2500 Public Speaking (3)

II. Core Distribution Requirements (12 hours)
   Students must take each of these four courses as early as possible in the major. These courses are prerequisites for taking many of the more advanced courses in the respective areas.
   COM 2000 Introduction to Communication (3)
   ORI 2000 Introduction to Communication as Performance (3)
   SPC 3301 Interpersonal Communication (3)
   SPC 2541 Persuasion (3)

III. Area of Concentration (9 hours)
   Students must take a minimum of nine hours in one of the three areas of concentration.
   Performance Communication
   ORI 3950 ORI 4931 ORI 4120
   ORI 4310 SPC 4201
   Interpersonal and Organizational Communication
   COM 3120 COM 3014 COM 4020
   COM 4124 COM 4710 COM 4942
   SPC 3212 SPC 3425 SPC 4305
   SPC 4310 SPC 4431
   Public and Cultural Communication
   COM 4030 COM 4022 SPC 3230
   SPC 3513 SPC 3631 SPC 3653
   SPC 3680 SPC 3710 SPC 4683
   SPC 4632 SPC 4680 SPC 4714

IV. Departmental Electives (12 hours)
   Students must take twelve additional hours of elective coursework in the Department of Communication at the 3000-level or higher, which must include at least six hours from outside the student’s “area of concentration.”

   The following three classes count as electives outside the area of concentration for everyone (regardless of the concentration chosen):
   COM 3122 Interview Communication
   SPC 3601 Advanced Public Speaking
   SPC 4930 Selected Topics Course (titles and topics vary each semester)

Communication Honors Program

The Honors Program in Communication provides an opportunity for exceptional undergraduate students in Communication to work closely with a faculty member in an intensive research experience. Each Honors student is required to complete and defend an undergraduate Honors Thesis. Application to the program ordinarily occurs during the second semester of the junior year or prior to completion of 90 semester hours. Admission to the program is based on the student’s overall academic record, performance in communication courses, and recommendations of faculty. To be admitted to the program, a student should have at least a 3.5 GPA in all communication courses and a 3.0 cumulative GPA. Students are required to complete 3 hours of Honors Reading and 3 hours of Honors Thesis. Students interested in the Honors Program should consult the department for further information about admission and program requirements.

• Requirements for the Minor in Communication

The minor in Communication is available to students pursuing any other major at USF. The minor in Communication requires a minimum of 18 hours of departmental coursework, including:

   SPC 2600 Public Speaking (3)
   COM 2000 Introduction to Communication (3)

   The other 12 hours may be selected from among departmental offerings and must include a minimum of 6 hours at the 3000-level or higher. A grade of “D” will not be counted toward a Communication minor. Courses may not be taken S/U where a grade option exists.

Prerequisites (State Mandated Common Prerequisites)

Students must complete SPC 2600, Public Speaking, before being admitted to the Communication major. A student may be admitted to the University without SPC 2600, but it must be completed as part of requirements for the major. A grade of “C” is the minimum acceptable grade.

Please be aware of the immunization, foreign language, and continuous enrollment policies of the university. This is a non-limited access program with the above courses recommended.

COMMUNICATION SCIENCES AND DISORDERS (ISH, ISA, ISI)

Undergraduate concentrations in the Communication Sciences and Disorders are available through the program of Interdisciplinary Social Sciences (ISS). Concentrations in Speech-Language-Hearing Science, American Sign Language, and Educational Interpreter Training lead to the B.A. degree. The undergraduate concentration in Speech-Language-Hearing Science (ISH) provides preprofessional study for Master’s level preparation as a Speech-Language Pathologist, Audiologist, or Deaf Educator. The American Sign Language (ISA) concentration focuses on the study of deaf culture through the development of communicative proficiency in ASL and prepares individuals to work with the deaf in a variety of social service agencies. The Educational Interpreter Training (ISI) concentration prepares individuals to work in educational settings with students who require assistance with educational material due to their hearing impairment or deafness. Students interested in these concentrations should contact the Department of Communication Sciences and Disorders regarding academic advising. The department also offers the Master’s of Science (M.S.) degree in Speech-Language Pathology, Audiology, and Deaf Education, as well as a Ph.D. specialization in Speech, Language, or Interpreting Science through the department of Psychology (Experimental Psychology). The department offers a 5-year M.S. course of study combining undergraduate with graduate courses; however, enrollment into this program is currently not available.
• Concentrations in Communication Sciences and Disorders (ISH)

A. General Information

All undergraduates seeking enrollment in this concentration must be in good academic standing as undergraduate students at the University of South Florida. Prior to beginning coursework in the junior year in the concentration, most students should complete general academic distribution requirements, successfully pass the CLAST, and have achieved 60 semester hours of coursework. Students with advising concerns relative to their first 60 semester hours are encouraged to meet with undergraduate departmental advisors since required and recommended courses for admission into the ISH or ISA concentration will also meet other university requirements.

B. Prerequisites for Admission

1. Required Courses

   - BSC 1085 Human Anatomy and Physiology I
   - BSC 1085L Human Anatomy and Physiology I Lab
   - BSC 1086 Human Anatomy and Physiology II
   - BSC 1086L Human Anatomy and Physiology II Lab
   - BSC 2092 Human Anatomy and Physiology II

2. Recommended Courses

   - LIN 3010 or LIN 3801 or CGS 2060

Courses in this category must be completed with a minimum grade of "C."

C. Other Requirements for the ISH Degree (min. 9 cr. hrs.)

1. Required Courses (6-7 cr. hrs.)

   - STA 2122 (3) or PSY 3213 (4) and ISS 3010 (3)

2. Additional Courses (3 cr. hrs.)

   - SYG 2000 or ANT 2000 or equivalent

D. Speech-Language-Hearing Concentration (ISH) (min. 39 cr. hrs.)

Coursework is sequenced for the ISH concentration in Speech-Language-Hearing Science. All students must complete study in basic knowledge of the communication sciences and in basic knowledge of communication disorders. Upon admission to the concentration, each student will be assigned an advisor to provide guidance in academic planning.

The course of study includes:

- SPA 3002 (3) SPA 3112 (3) SPA 4222 (3)
- SPA 3004 (3) SPA 3110 (3) SPA 4363 (3)
- SPA 3011 (3) SPA 4050 (3) SPA 4562 (3)
- SPA 3030 (3) SPA 4201 (3)
- SPA 3101 (3) SPA 4210 (3)
- SPA 3380 (4) (Recommended)

Students interested in teacher certification in deaf education must complete required education courses in addition to all ISS requirements listed under Sections B and C. Effective July, 1989, the academic requirement for employment in the public school system for Speech-Language Pathologists is the Master's degree.

E. American Sign Language Concentration (ISA) (min. 30 cr. hrs.)

New students are not being admitted to the ISA Major for the 1999/2000 year while the curriculum is being restructured.

The ISA concentration seeks to educate students to communicate with the deaf and to apply this knowledge in work settings where knowledge of the deaf culture is essential for the provision of social services. This ISA concentration is not intended to prepare interpreters for the deaf although exceptionally proficient students may qualify as interpreters. This concentration also does not qualify students for admission into the M.S. programs in Speech-Language Pathology or Clinical and Rehabilitative Audiology, or Deaf Education. Those students choosing to become teachers of the deaf must pursue the ISH concentration in Speech-Language-Hearing Science and obtain the M.S. degree in Aural Rehabilitation/Deaf Education.

General admission requirements and recommendations for ISA are identical to the ISH concentration in Speech-Language-Hearing Science. The specific course of study for the ISA concentration also assumes that the student has completed an A.A. degree or its equivalency. Upon admission to the concentration, each student will be assigned an advisor for the purpose of academic planning. The following courses are included in the major:

- SPA 3002 (3) SPA 3004 (3) SPA 3030 (3)
- SPA 3310 (3) SPA 3380 (4) SPA 4332 (3)
- SPA 4363 (3) SPA 4382 (4) SPA 4383 (4)
- Other electives (6).

F. Educational Interpreter Training Concentration (ISI)

The ISI concentration seeks to educate students to become educational interpreters for deaf students in the public school system. A program of 42 credit hours is planned for the student majoring in the Educational Interpreter Training Concentration. Course content is distributed across five categories of information and skills necessary for a career in Educational Interpreting:

1. Role of the Educational Interpreter in the Public School Setting
2. Cognitive, Psychosocial, and Language Development of Hearing and Deaf Children in Public Schools
3. Techniques and Applications of Educational Interpreting in the Public School
4. Professional Practices of the Educational Interpreter
5. Internship

General education requirements as well as liberal arts exit requirements for ISI are identical to those for ISA and ISH concentrations. The specific course of study for the ISI concentration assumes that the student has completed an A.A. degree in Interpreter Training or its equivalent. Additionally, prerequisites include proficiency in ASL signing and interpreting skills. Upon admission to the concentration, each student will be assigned an advisor for the purpose of academic planning. Interested students should contact the coordinator of the Educational Interpreter Training Program in the Department.

The following courses are included in the major:

- SPA 3001 (3) SPA 3001L (1) SPA 3003 (3)
- SPA 3003L (1) SPA 3004 (3) SPA 3028 (3)
- SPA 4386 (3) SPA 4386L (1) SPA 4387 (3)
- SPA 4387L (1) SPA 4371 (3) SPA 4503 (4)
- EDF 3214 (3) EDF 3604 (3) EDG 4620 (3)
- EEX 4070 (2-3) EME 2040 (3) ISS 3010 (3)

Minimum Grade for Majors

A student must receive a "C" grade or better in all courses within the major and those that are required prerequisites. Any student who receives a grade of "D" or lower in more than two USF Communication Sciences and Disorders courses will be automatically barred from continuing as an undergraduate major in ISH, ISA, or ISI. Grade forgiveness may be used for two courses only and may be used only for course work taken in the first year of study. Courses which comprise the second year of the major may not be repeated.

HONORS PROGRAM

The Honors Program in Communication Sciences and Disorders (ISH, ISI) provides outstanding undergraduates with advanced, individualized training in their areas of interest as well as additional research training. Admission to the Honors Program requires the student to submit evidence of (1) having completed 70 hours of college level course work with a 3.25 average or better, (2) 9 credit hours within the Communication Sciences and Disorders (CSD) curriculum with at least a 3.5 average in these courses, and (3) a letter of recommendation from a CSD faculty member. After acceptance to the Honors Program, the student will complete the requirements for the major with a GPA above 3.5 for courses taken within the department and an overall GPA above 3.25. The Honors Student must complete 6 credit hours in advanced level courses that pertain to the major, complete 2 credits in Honors Colloquia and write an Honors Thesis.
**Requirements for the Minor in American Sign Language**

Students seeking a minor in American Sign Language (ASL) must complete a minimum of 18 credits:

1. A minor must include these four courses:
   - SPA 3380 - Basic ASL
   - SPA 4382 - Intermediate ASL
   - SPA 4383 - Advanced ASL
   - SPA 4363 - Nature & Needs of the Deaf & Hearing Impaired

2. In addition, a minor must include one of the following:
   - SPA 4331 - Fundamentals of Finger Spelling
   - SPA 4332 - Structure of Sign Language

3. Students transferring credit hours toward a minor in ASL must complete 12 credit hours within the Department of Communication Sciences and Disorders regardless of the number of credit hours transferred.

4. A GPA of 2.0 or better must be achieved in minor course work in order for a student to be certified for graduation with a minor in American Sign Language.

**Prerequisites (State Mandated Common Prerequisites)**

Complete the A.A. degree at the community college. Some courses required for the Speech-Language-Hearing (ISH) or ASL (ISA) major may also meet General Education Requirements thereby transferring maximum hours to the university.

Students entering the university without an A.A. degree and fewer than 60 semester hours of acceptable credit, must meet the university’s entering freshman requirements including ACT and SAT test scores, GPA, and course requirements.

Students who plan to major in ISH and ISA are encouraged to complete the following prerequisites during the program of study at the community college:

I. **ANT 2000** Introduction to Anthropology 3
   or
   **PSY 2012** Introduction to Psychology 3
   or
   **SYG 2000** Introduction to Sociology 3

II. And each of the following:

   - **BSC 1085** Human Anatomy & Physiology I 3
   - **BSC 1085L** Human Anatomy & Physiology I Lab 1
   - **BSC 1086** Human Anatomy & Physiology II 3
   - **BSC 1086L** Human Anatomy & Physiology II Lab 1
   - **STA 1023** Introduction to Statistics 3
   or equivalent work such as:
   - **BSC 2092** Human Anatomy & Physiology 5
   - **STA 1023** Introduction to Statistics 4
   (or equivalent)

III. Complete the foreign language requirement

   **NOTE:** Students who select ASL as their foreign language and are seeking a bachelor of arts degree in ASL are required by the Department of Communication Sciences and Disorders to complete satisfactorily at least one upper level course in ASL at the University of South Florida or to demonstrate proficiency in ASL.

IV. Admission to the program of study for Educational Interpreters requirement: ability to use ASL at the intermediate level of a standardized ASL competency test such as the Sign Communication Proficiency Index (SCPI) or other equivalent evaluation. It is further recommended that the candidate will have completed a community college interpreter training program curriculum.

   **There are no State Mandated Common Prerequisites for this degree program.**

   Please be aware of the immunization, foreign language, and continuous enrollment policies of the university. This is a non-limited access program with the above courses recommended.

   Student are encouraged to join the USF chapter of the National Student Speech-Language-Hearing Association.

This group is affiliated with the national association (ASHA) and has many benefits of membership.

**CRIMINOLOGY (CCJ)**

The major in Criminology provides students with an in-depth exposure to the total criminal justice system including law enforcement, detention, the judiciary, corrections, and probation and parole. The program concentrates on achieving balance in the above aspects of the system from the perspective of the criminal justice professional, the offender, and society. The program provides a solid background in the theory, issues and methodology comprising Criminology.

The objective of the undergraduate program in Criminology is to develop a sound educational basis either for graduate work or for professional training in one or more of the specialized areas comprising the modern urban criminal justice system. The program offers three areas of concentration within the major as well as a certification program in corrections.

**Requirements for the Major in Criminology:**

A minimum of 42 semester hours is required of all undergraduate majors in Criminology including the following courses:

- **CCJ 3024** (3)*
- **CCJ 3204** (3)
- **CCJ 3610** (3)*
- **CCJ 3701** (3)**
- **CCJ 4110** (3)
- **CCJ 4273** (3)
- **CCJ 4306** (3)
- **CCJ 4501** (3)
- **CCJ 4934** (3)

and 15 hours of electives within the major.

*These are gateway courses and must be taken first.
**Students who plan to continue on to graduate school must also take CCJ 4700 as one of their electives within the major.

The student may wish to select and complete the course suggestions from within one of the three areas of concentration described below to fulfill the 15 hours of electives within the major.

- **Law Enforcement:**
  - **CCJ 4100** (3)
  - **CCJ 4511** (3)
  - **CCJ 4940** (3)

plus 3 hours of electives.

- **Corrections:**
  - **CCJ 4316** (3)
  - **CCJ 4331** (3)
  - **CCJ 4940** (3)

plus 3 hours of electives.

- **Juvenile Justice:**
  - **CCJ 4513** (3)
  - **CCJ 4511 or 4540** (3)
  - **CCJ 4940** (3)
  - **CCJ 4550 or 4652** (3)

plus 3 hours of electives.

**Note:** No more than five (5) hours of CCJ 4900, CCJ 4910 or any combination of the two will be accepted toward the minimum number of hours in the major.

Transfer students should be aware that by University regulation they are obligated to establish academic residency by completing the equivalent of one academic year (30 semester hours) in "on-campus" courses. All undergraduate transfer students entering Criminology as their major will be required, moreover, to take a minimum of 30 credit hours in major coursework at the University of South Florida.

These residence requirements are designed to insure that transfer students who subsequently receive their baccalaureate degree from the University of South Florida with a major in Criminology will have been exposed to the same body of knowledge in their major as those students who complete all or a major portion of their coursework at the University of South Florida.

Any student who receives a grade of "D" or lower in more than one USF CCJ course will be automatically barred from continuing as a Criminology major.

**Certification in Corrections:**

The Department of Criminology offers a certificate in corrections. This certificate is recognized by the Florida
ECONOMICS (ECN)

also subject to the Department's "2 D" rule. Officers. Students working toward corrections certification are required to complete minimum in order to qualify as a Florida Correction Probation Officer. Students working toward corrections certification requirements must be taken at an FCJSTC approved program or at USF and all additional training programs must be taken at USF and all additional training requirements must be taken at an FCJSTC approved program in order to qualify as a Florida Correction Probation Officer. Students working toward corrections certification are also subject to the Department's "2 D" rule.

• Requirement for a Minor in Criminology:
The Department of Criminology offers a minor in Criminology. The minor consists of three required courses (CCJ 3024, 3204, and 3610) totalling 9 credit hours, and the selection of two of the following 3 hour courses (CCJ 4110, 4273, 4306, 4501) for a total of 15 semester hours. Students must receive approval from the Department prior to starting their minor. A minimum of 9 semester hours must be completed at USF. Students minoring in Criminology are subject to the Department's "2 D" Rule.

Prerequisites (State Mandated Common Prerequisites)

Students wishing to transfer to USF should complete the A.A. degree at the community college. Some courses required for the major may also meet General Education Requirements thereby transferring maximum hours to the university. If students transfer without an A.A. degree and have fewer than 60 semester hours of acceptable credit, the students must meet the university's entering freshman requirements including ACT or SAT test scores, GPA, and course requirements.

There are no State Mandated Common Prerequisites for this degree program.

The transfer student should also be aware of the immunization, foreign language, and continuous enrollment policies of the university.

Students are encouraged to take the community college Criminal Justice or Criminal Justice programs. Because courses in these programs will not substitute for the USF major requirements listed below, these students should be aware of and look forward to revisiting many of the content areas at the junior and senior levels at USF.

Suggested Electives:

- ACG 2001 Accounting I 3
- ACG 2011 Accounting II 3
- AFA 2001 Introduction to the Black Experience 3
- POS 1001 Introduction to Political Science 3
- POS 2041 American National Government 3
- POS 2112 State and Local Government 3
- PSY 2011 Introduction to Psychology 3
- SYG 2000 Introduction to Sociology 3

ECONOMICS (ECN)

Economics offers a clear and logical way of thinking about complicated issues such as unemployment, inflation, pollution, and crime. The department offers broad course choices allowing students to tailor their programs to provide training for professional careers in business, teaching, government, and law. Students interested in majoring or minoring in economics should contact the undergraduate academic advisor in the Economics Department for more information.

• Requirements for the Major in Economics:

A student may earn a Bachelor of Arts degree with a major in Economics by satisfactorily completing 33 credits in Economics in addition to college requirements. The 33 credits must include at least:

- ECO 2013 Economic Principles: Macroeconomics (3)
- ECO 2023 Economic Principles: Microeconomics (3)
- ECO 3101 Intermediate Price Theory (3)
- ECO 3203 Intermediate Income & Monetary Analysis (3)
- ECO 4935 Economic Statistics (3)
- or QMB 3200 Business and Economics Statistics II (3)
- Economics electives numbered 3000 or higher (18)

- ECO 3100, Managerial Economics, may be substituted for ECO 3101. Either ECO 1000 (if taken before both ECO 2013 and ECO 2023) or QMB 2150 (if taken as a prerequisite to QMB 3200) may be substituted for a maximum of 3 hours of upper level elective credit. Students must obtain a grade of "C" or higher in ECO 3101 or ECO 3100 in order to enroll in any course for which ECO 3101, ECO 3100 or ECO 3203 is a prerequisite. At least 9 of the 15 hours of upper level economics electives must be in courses for which either ECO 3101, ECO 3100 or ECO 3203 is a prerequisite. No more than 3 hours credit can be applied toward a major from ECO 4905 and/or ECO 4914. At least 12 hours must be taken in residence at USF. Grades of "C" or better in ECO 2013 and ECO 2023 are required for graduation with a major in Economics. Economics majors working at the regional campuses cannot expect to fulfill all economics course requirements at those campuses.

- Requirements for the Minor in Economics:

Students from throughout the University may earn a minor in Economics by satisfactorily completing 18 hours in Economics including:

- ECO 2013 Economic Principles: Macroeconomics (3)
- ECO 2023 Economic Principles: Microeconomics (3)
- Economics electives numbered 3000 or higher (12)
- ECO 1000, if taken before both ECO 2013 and ECO 2023, may be substituted for 3 hours of upper level electives. Before being recognized as a minor in economics a student must obtain program approval by the Economics Department Undergraduate Advisor. A grade point average of 2.0 or higher must be achieved in minor course work for certification of the minor for graduation. ECO 4905 and ECO 4914 may not be counted toward the minor. At least 9 hours must be taken in residence at USF.

The Economics Pre-Law Curriculum

Economics provides the foundation for much of our legal system. Economics offers a series of courses to provide the abstract and applied skills required by those seeking legal careers.

Beyond ECO 2013 Economic Principles (Macroeconomics) and ECO 2023 Economic Principles (Microeconomics), students should elect ECP 4451 (Law and Economics). ECP 3413 (Economics of Regulation and Antitrust), and ECO 4506 (Economics of Crime). Additional courses of interest are: ECO 4504 (Public Finance), ECP 3530 (Economics of Health), ECP 3302 (Environmental Economics), ECP 3203 (Labor Economics), and ECP 3201 (Economics of Women and Work).

The Economics Pre-Law Curriculum fits easily within the Economics major or minor but is open to other students. The Economics Department Undergraduate Advisor has helpful advice for students taking the Law School Admissions Test or applying for admission to law schools.

Prerequisites (State Mandated Common Prerequisites)

Students should complete the following prerequisite courses listed below at the lower level prior to entering the University. If these courses are not taken at the community college, they must be completed before the degree is granted.

- POS 1001 Introduction to Political Science 3
- POS 2041 American National Government 3
- POS 2112 State and Local Government 3
- PSY 2011 Introduction to Psychology 3
- SYG 2000 Introduction to Sociology 3
- ECO 2013 Economic Principles: Macroeconomics (3)
- ECO 2023 Economic Principles: Microeconomics (3)
- ECO 3101 Intermediate Price Theory (3)
- ECO 3203 Intermediate Income & Monetary Analysis (3)
- ECO 4935 Economic Statistics (3)
- or QMB 3200 Business and Economics Statistics II (3)
- Economics electives numbered 3000 or higher (18)
Unless stated otherwise, a grade of "C" is the minimum acceptable grade.

ECO X013 Economic Principles II (Macroeconomics)
and
ECO X023 Economic Principles I (Microeconomics)

or
ECOXXXX Any level economics course, 3 semester hours, unless stated otherwise.

ECOXXXX Any level economics course, 3 semester hours, please be aware of the immunization, foreign language, and continuous enrollment policies of the university.

# ENGLISH (ENG)

## Freshman English Requirement

All first-time-in-college students are required to take Freshman English (a sequential two-semester course of study) in accordance with the following conditions:

1. First-time-enrolled students (a) who do not intend to take the CLEP Freshman English Test, or (b) who have been notified of failing CLEP prior to registration and who do not intend to attempt the exam a second time must take ENC 1101 and ENC 1102 sequentially. If a student fails the first course, he/she must repeat it before proceeding to the next Freshman English course. Students should normally take these courses during their freshman year, but these courses are in high demand and it is possible that registration space will not always be available.

2. First-time-enrolled students (a) who have not taken CLEP prior to their arrival on campus, or (b) who have failed but wish to repeat the test, must attempt CLEP during their first nine (9) weeks. During this semester, they should not enroll in ENC 1101. If a student either fails or does not attempt the CLEP examination during his/her first nine (9) weeks, the student normally should take ENC 1101 in the following semester. In this case, the student will normally complete the sequence by the first semester of his/her sophomore year. These policies do not apply to first-time-enrolled students who can meet the Freshman English requirement with credit transferred from another institution or with appropriate AP English credit.

### Requirements for the Major in English:

The program in English provides options in English and American literature, creative writing, and professional and technical writing. The primary mission of the literature option is to provide a solid foundation in the study of British and American literature. The program also offers courses in other world literatures in translation, cultural studies, feminist and ethnic studies, and both traditional and more recent critical approaches. The creative writing option includes training in preparation of English and American literature with an introduction to approaches. The creative writing option includes training in writing found in the professional workplace. The English Education program is described under the section for the College of Education. Major requirements for English majors are listed below. A grade of "D" will not be counted toward fulfilling the major requirements. Students may not use more than one Directed Study toward meeting the major requirements. Transfer students must earn at least 15 hours in the major at USF.

### OPTION I: English and American Literature.

Twelve courses (36 hrs.) as follows:

1. One of the following:
   - AML 3031
   - AML 3032
   - AML 3051

2. Four of the following:
   - ENL 3015
   - ENL 3230
   - ENL 3251
   - ENL 3273
   - ENL 3331 or ENL 3332

3. Five of the following, at least two of which must be from Group A:
   - Group A:
     - AML 4111
     - AML 4121
     - ENL 4122

4. ENL 4013

### OPTION II: Creative Writing.

This option is designed for aspiring writers of fiction or poetry. In addition to giving credit for writing through a variety of course offerings, it provides information about procedures for publishing.

1. **Writing Requirements**
   - CRW 3111 or CRW 2100
   - CRW 3311
   - Any three of the following:
     - CRW 3112
     - CRW 3121
     - CRW 3312
     - CRW 3321
     - CRW 4120
     - CRW 4320
     - CRW 4930
   - **Note:** CRW 2100 or CRW 3111 must be taken before any other courses in the Fiction series, and CRW 3311 must be taken before any other courses in the Poetry series.

2. **Literature Requirements**
   - The student must select seven literature courses from those listed in OPTION I. Two courses must be from group "1," two more from group "2," and three from group "3."

### OPTION III: Professional and Technical Writing.

This 36-hour program allows undergraduates to concentrate their studies in professional writing, wherein they will master special writing skills demanded by industry, business, government, and the professions. Semester-long internships may be arranged by the English Department with local businesses, industries, and professional organizations. Interns will earn three credit hours and, in some cases, receive compensation for their duties.

Students choosing this concentration will also assure themselves of a core of liberal arts studies since they must take 21 credit hours of literature courses in addition to 15 hours of composition courses.

1. **Composition requirements**
   - Five of the following:
     - CRW 2100
     - ENC 2210
     - ENC 3310
     - ENC 3310
     - ENC 4931
   - **Note:** ENC 3213, ENC 3273, ENC 3331, and ENC 3332 are listed below. A grade of "D" will not be counted toward fulfilling the major requirements. Students may not use more than one Directed Study toward meeting the major requirements. Transfer students must earn at least 15 hours in the major at USF.

### Requirements for the Minors in English

#### English and American Literature Minor (15 hours)

1. **One of the following:**
   - AML 3031
   - AML 3032
   - AML 3051

2. **Two of the following:**
   - ENL 3015
   - ENL 3230
   - ENL 3251
   - ENL 3331 or ENL 3332

3. **One course at the 4000 level listed in major OPTION I**

4. **One additional 3000- or 4000-level course with AML, CRW, ENC, ENL or LIT prefix**

#### Creative Writing Minor (15 hours)

1. **One of the following:**
   - CRW 3111 or CRW 2100
   - CRW 3311
   - Any two of the following:
     - CRW 3112
     - CRW 3121
     - CRW 3312
   - CRW 3312
   - CRW 4120
   - CRW 4320
   - CRW 4930
Prerequisites (State Mandated Common Prerequisites)

Students wishing to transfer to USF should complete the A.A. degree at the community college. Some courses required for the major may also meet General Education Requirements thereby transferring maximum hours to the university. If students transfer without an A.A. degree and have fewer than 60 semester hours of acceptable credit, the students must meet the university’s entering freshman requirements including ACT or SAT test scores, GPA, and course requirements.

The transfer student should also be aware of the immunization, foreign language, and continuous enrollment policies of the university.

Students should complete the following prerequisite courses listed below at the lower level prior to entering the University. If these courses are not taken at the community college, they must be completed before the degree is granted. Unless stated otherwise, a grade of “C” is the minimum acceptable grade.

- ENC 1101 Freshman English I
- ENC 1102 Freshman English II
- Six semester hours earned in courses taught in the English Department, each with 6,000 words of evaluated writing for a total of 12,000 words.

Suggested electives:

- AMH 2010 American History I
- AMH 2020 American History II
- EUH 2021 Medieval History I
- EUH 2022 Medieval History II

ENVIRONMENTAL SCIENCE AND POLICY (EVR)

The status of the earth’s environment has been a major concern since the 1960s. As we enter the 21st century, it represents one of the most critical issues facing nearly all nations individually as well as the earth community as a whole. Increased population, technology, globalization and diminishing natural resources all play an important role in the changing environment. As a consequence, governments at all levels are devoting resources to help understand the problems that we are facing and to aid in their mitigation. This includes everything from public education to cleaning up toxic waste sites. The environmental industry is a growing arena for employment for degree holders at all levels.

The Bachelor of Science (B.S.) in Environmental Science and Policy was approved in 1995. This interdisciplinary program spans multiple colleges within the University but is housed in the College of Arts and Sciences. All students must complete the University’s General Education Requirements. All majors in the program must complete the required courses including two introductory courses in environmental science and policy, 2 semesters each of general biology and general chemistry, environmental ethics, environmental policy, statistics and physical science (either geology or physics). In addition, majors take six courses that allow them to sub-specialize in science or in policy. Students choosing to sub-specialize in science take 2 semesters of calculus, 1 semester of organic chemistry and lab, and 4 electives within designated tracks. Students choosing to sub-specialize in policy take environmental law and environmental economics and 4 electives within designated categories. Finally, all majors must complete an upper division seminar and an internship or project. ESP majors are advised by the Program Advisor.

Requirements for the Major in Environmental Science and Policy

All students majoring in Environmental Science and Policy are required to see the advisor each semester prior to registration for the following term. Students who are eligible for an internship must see the internship coordinator four weeks prior to the beginning of the semester in which they will complete the internship.

REQUIREMENTS FOR ALL MAJORS

- EVR 2001 EVR 2001L
- BSC 2010/2010L
- CHM 2045L
- PUP 4203
- STA 2023 or QMB 2100 or EGN 3443
- GLY 2010 (with lab) or GLY 2100 (with lab) or PHY 2048 (with lab) or PHY 2053 (with lab)
- EVR 4910 or EVR 4940

Science Track

MAC 2233 and MAC 2234 OR MAC 2281 and MAC 2282 OR MAC 2311 and MAC 2312 and CHM 2210 and CHM 2210L plus 4 electives from one of the following tracks: Restoration, Water Quality, Environmental Monitoring or Marine Resources.

Policy Track

ECP 3302 and POS 3697

Policy Track

ECP 3302 and POS 3697

plus four approved policy-related electives.

Prerequisites (State Mandated Common Prerequisites)

Students wishing to transfer to USF should complete the A.A. degree at the community college. Some courses required for the major may also meet General Education Requirements thereby transferring maximum hours to the university. If students transfer without an A.A. degree and have fewer than 60 semester hours of acceptable credit, the students must meet the university’s entering freshman requirements including ACT or SAT test scores, GPA, and course requirements.

There are no State Mandated Common Prerequisites for this degree program.

The transfer student should also be aware of the immunization, foreign language, and continuous enrollment policies of the university.

Students should complete the following prerequisite courses listed below at the lower level prior to entering the University. If these courses are not taken at the community college, they must be completed before the degree is granted. Unless stated otherwise, a grade of “C” is the minimum acceptable grade.

- MAC 2233 & MAC 2234 Elementary Calculus
- MAC 2281 & MAC 2282 Engineering Calculus
- MAC 2311 & MAC 2312 Calculus

and

- CHM 2045 & CHM 2045L
- CHM 2046 & CHM 2046L

plus

- STA 2023 Statistics
- One approved Geology or Physics Course with Lab

GEOGRAPHY (GPY)

The degree program in Geography consists of 10 courses (41 hrs. total), 5 of which are core courses required of all
majors. Further, students choose either the Urban or Environmental track for their remaining courses. Both tracks offer an applied and techniques orientation for the students, which is stressed through coursework, advising, and through the core course structure for the major. The Environmental track focuses on major environmental systems including the hydrosphere, atmosphere, pedosphere, and biosphere. Particular emphasis is placed on the human modification of the natural environment and the global interconnections of the major earth systems. The Urban track focuses on the social and spatial effects of the growth of cities, including issues such as the historical evolution of urban form and function, land-use changes and conflicts, economic restructuring, the growth and decline of inner-cities, and urban racial and ethnic relations.

**Requirements for the Major in Geography**

A major in Geography consists of 10 courses as follows:

**Required core courses (5 courses + lab):**

- GEO 3013 Intro to Physical Geography (4)
- GEO 3013L Intro to Physical Geography Lab (1)
- GEO 3402 Human Geography (4)
- GEO 3141C Digital Thematic Mapping (4)
- GEO 3164C Quantitative Methods (4)
- GEA XXXX (One course with GEA prefix) (4)

**Supporting Courses (5 courses):**

- Majors will select among courses in the Urban and Environmental tracks for their additional coursework. They must take an additional 5 courses, 2 of which may be outside of their track. If more than 1 course is taken outside of the track, 1 of them must be a techniques (elective) course. The following list designates supporting courses by track (or elective technique).

  **Urban Track Courses:**
  - GEO 3602 Urban Geography (4)
  - GEO 4502 Economic Geography (4)
  - GEO 4604 Advanced Urban Geography (4)
  - GEO 4700 Transportation Geography (4)
  - GEO 4470 Political Geography (4)
  - URP 4052 Urban and Regional Planning (4)
  - GEO 4421 Cultural Geography (4)
  - GEO 4340 Natural Hazards (4)

  **Environmental Track Courses:**
  - GEO 4201C Advanced Physical Geography (4)
  - GEO 4210 Process Geomorphology (4)
  - GEO 4280C Hydrology (4)
  - GEO 4340 Environmental Geology (4)
  - GEO 4372 Global Conservation (4)
  - MET 4002 Climatology (4)
  - MET 4010C Meteorology (4)
  - GEO 4444 Biogeography (4)

  **Techniques Courses (electives):**
  - GEO 4114C Geographic Techniques and Methodology (4)
  - GEO 4140C Remote Sensing of the Environment (4)
  - GEO 4151C Geographic Information Systems (4)

**Courses Excluded as Electives for the major:**

- GEO 1930 Geography of Current Events (4)

Only 4 combined hours of the following courses may be applied toward the degree:

- GEO 4900 Directed Reading (1-4)
- GEO 4910 Individual Research (1-4)

**Requirements for the Minor**

A minor in Geography consists of 17 credit hours, with a minimum grade-point average of 2.0. The required courses are:

- GEO 3013 (4) GEO 3013L (1) GEO 3402 (4)
- One GEA elective (4) and one upper level GEO, MET or URP elective (3000-5000 level) (4)

**Prerequisites (State Mandated Common Prerequisites)**

Students wishing to transfer to USF should complete the A.A. degree at the community college. Some courses required for the major may also meet General Education Requirements thereby transferring maximum hours to the university. If students transfer without an A.A. degree and have fewer than 60 semester hours of acceptable credit, the student must meet the university’s entering freshman requirements including ACT or SAT test scores, GPA, and course requirements.

The transfer student should also be aware of the immunization, foreign language, and continuous enrollment policies of the university.

Students should complete two introductory courses in Geography prior to entering the University. If these courses are not taken at the community college, they must be completed before the degree is granted.

**GEOLOGY (GLY)**

The Department of Geology offers programs leading to Bachelor of Arts, Bachelor of Science, Master of Science, and Doctor of Philosophy degrees. Geology is one of the broadest of the sciences because of its dependence on fundamentals of biology, chemistry, mathematics, and physics as applied to the study of the earth. As a result, undergraduate students are expected to obtain a broad background in the other sciences as well as a concentration in geology.

The Bachelor of Science degree program has two tracks, the Geology Track and the Environmental Geology Track. Both provide the student with a broad foundation in the basics of the science. The Geology track is designed for the student interested in pursuing graduate studies or employment in industry and government agencies. The Environmental Geology track is designed for the student interested in the fields of hydrogeology or environmental geology. The Bachelor of Arts program is designed primarily for the liberal arts student who has interest in the subject but is not preparing for a career in the field or for the pre-professional school student. A student who elects the B.A. program and decides to pursue the geology profession or attend graduate school will need at least physics and field geology in his/her program.

The graduate program in geology allows the student to pursue advanced studies in nearly all areas of geology. As a result of faculty interests and geographic location, several geologic subdisciplines are emphasized, including applied geophysics, carbonate geology, coastal geology, experimental mineral kinetics, geochemistry, hydrogeology, paleontology, and volcanology.

**Requirements for the Major in Geology (B.A.)**

1. **Geology Courses** (32 sem. hrs.)

   - GLY 2010L (3) GLY 2281, 2282 (4)
   - GLY 2010L (3) GLY 3400 (4)
   - GLY 2010L (3) GLY 3400C (4)
   - GLY 2090 (3) GLY 3410 (4)
   - GLY 2100L (3) GLY 3410 (4)
   - GLY 2100L (3) GLY 3410L (1)
   - GLY 2100L (3) GLY 3410L (1)

2. **Supporting Courses** (22-28 sem. hrs.)

   - a. CHM 2041 (3) CHM 2046 (3)
   - b. CHM 2045L (1)
   - c. One year of calculus (MAC 2233, 2234 or 2311, 2212 or 2281, 2282)
   - d. Two courses in biology or physics selected from:
     - BSC 2010 (3) BSC 2011 (3)
     - BSC 2010L (1) BSC 2011L (1)
     - PHY 2053-2053L (4) or PHY 2048-2048L (4)
     - PHY 2054-2054L (4) or PHY 2049-2049L (4)

3. **Liberal Arts Requirements**

   - The student is required to complete the University's Liberal Arts Requirements.

4. **Free Electives**

   - Courses over and above required courses should be taken to complete a 120-hour program.

5. **D and F grades earned in attempting to satisfy major requirements will be used in calculating the major GPA.**
• Requirements for the Major in Geology (B.S.)

1. Geology Courses (32 sem. hrs.)
   - GLY 2010 (3) GLY 3200 (4) GLY 4552 (4)
   - GLY 2010L (1) GLY 3400C (4) GLY 4550 (4)
   - GLY 2100 (3) GLY 3610 (4)
   - GLY 2100L (1) GLY 4310 (4)

2. Geology Track or Environmental Geology Track (6-8 sem. hrs.)
   a. The Geology track has a field geology requirement: A minimum six-week, six-hour field course, approved by the geology advisor.
   b. The Environmental Geology track requires:
      - GLY 4822 (4)
      - GLY 4700 (4) or GEO 4210 (4)

3. Supporting Courses (22-24 sem. hrs.)
   - CHM 2041 (3) CHM 2046 (3)
   - CHM 2045L (1) CHM 2046L (1)
   - MAC 2281 (3) or MAC 2311 (4)
   - MAC 2282 (3) MAC 2312 (4)
   - PHY 2048 (3) PHY 2049 (3)
   - PHY 2048L (1) PHY 2049L (1)

4. Liberal Arts Requirements
   The student is required to complete the University's Liberal Arts Requirements.

   The student will choose, in consultation with his/her Geology adviser, such courses in the natural sciences that support his/her major interest in the field of geology. Courses in computer programming and additional mathematics are of particular value. Those students who anticipate continuing for a doctorate in graduate school are encouraged to take a foreign language, preferably French, German, or Russian.

All geology majors are strongly urged to take a course in technical writing.

All entering students anticipating a major in Geology are advised to enroll in:
   - GLY 2010
   - GLY 2100
   - CHM 2041
   - CHM 2046

in the freshman year and to seek curriculum counseling with a Geology advisor.

6. D and F grades earned in attempting to satisfy major requirements will be used in calculating the major GPA.

Geology Honors Program
The purpose of the Honors Program is to provide a select group of undergraduate Geology majors an opportunity to undertake an intensive, individualized research experience. The culmination of the program is the completion and presentation of an honor's thesis. To apply, interested students should contact the Geology undergraduate advisor during the second semester of the student's junior year. Admission to the program requires a GPA of 3.5 in the major and an overall GPA of 3.2.

• Requirements for the Minor in Geology
A minor in geology consists of 16 credit hours and must include GLY 2010, GLY 2010L and GLY 2100, GLY 2100L. Additional courses, approved by the geology advisor, are designed to complement the student's major program. Only those courses which are acceptable toward the major in geology may be used toward the minor.

Teacher Education Programs
Prospective elementary and secondary school teachers desiring to teach science should include basic courses in Geology and related sciences as part of their curriculum.

Prerequisites (State Mandated Common Prerequisites)
Students wishing to transfer to USF should complete the A.A. degree at the community college. Some courses required for the major may also meet General Education Requirements thereby transferring maximum hours to the university. If students transfer without an A.A. degree and have fewer than 60 semester hours of acceptable credit, the students must meet the university's entering freshman requirements including ACT or SAT test scores, GPA, and course requirements.

The transfer student should also be aware of the immunization, foreign language, and continuous enrollment policies of the university.

Students should complete the following prerequisite courses listed below at the lower level prior to entering the University. If these courses are not taken at the community college, they must be completed before the degree is granted. Unless stated otherwise, a grade of "C" is the minimum acceptable grade:
   - CHM 1045/1045L General Chemistry I (with lab) or CHM 1040 & CHM 1041 or CHM 1045C or CHM 1045E
   - CHM 1046/1046L General Chemistry II (with lab) or CHM 1046C or CHM 1046E
   - PHY 2048/2049/2049L General Physics and Laboratory I or other GLY course
   - PHY 2048C General Physics and Laboratory I or PHY 2048/2048L
   - PHY 2049C General Physics and Laboratory II or PHY 2049/2049L
   - PHY 2053C Physics
   - PHY 2054C Physics

The choice physics sequence depends on the area of geology specialization.

GERONTOLOGY (GEY)
Gerontology is the study of the process of human aging in all its many aspects: physical, psychological, and social. In the Department of Gerontology particular emphasis is placed upon applied gerontology, with the goal of educating students who in their professional careers will work to sustain or improve the quality of life of older persons. Since Gerontology is an interdisciplinary field, dual majors with other departments are encouraged. The Department offers the degrees of Bachelor of Arts in Gerontology, Bachelor of Science in Gerontology, a minor in Gerontology, and Master of Arts in Gerontology. The Department of Gerontology also hosts the University-wide Ph.D. in Aging Studies.

• Requirements for the Major in Gerontology (B.A.)
   The Bachelor of Arts Degree in Gerontology entails 36 semester hours of required course work. In this program the course of study is intended to provide students with a liberal education in gerontology and some exposure to the various career opportunities in the field of aging. This degree is especially appropriate for students who plan to pursue graduate or professional work in gerontology, or some other field, or who plan to work with older adults in careers in areas such as case management, social services, or activity therapy.
   
   Required Courses:
   - GEY 2000 (3) GEY 4401 (3)
   - GEY 3601 (3) GEY 4612 (3)
   - GEY 3625 (3)
   A required prerequisite is STA 2122.
   B.A. students complete 21 additional elective hours which may include field placement. Students should meet frequently with the departmental advisor to plan courses and field work that will prepare the student for career goals.

• Requirements for the Major in Gerontology (B.S.)
   The Bachelor of Science Degree in Gerontology is a 39 semester hour specialist degree which, in addition to providing students with a basic education in gerontology, is intended to prepare them for entry level positions in Nursing Home Administration. It is especially appropriate for students who intend to
begin working immediately following completion of the degree program.

**Required courses:**
- BUL 3320 (3)
- GEY 4329 (3)
- MAN 3025 (3)
- GEY 3601 (3)
- GEY 3610 (3)
- MAN 3240 (3)
- GEY 4327 (3)
- GEY 4640 (3)
- MAN 3301 (3)
- GEY 4328 (3)
- GEY 4945 (6)

Students also complete the following twelve (12) hours of prerequisites: ACG 2021, ACG 2071, CGS 2000, and GEY 2000.

These courses are intended to reflect educational requirements mandated by the State of Florida and specified in Chapter 21z.11 of the Florida Administrative Code.

Students in the B.S. program should understand that they will only be allowed to register for the full-time internship (GEY 4945) after successful completion of all (or all but one) of the required courses in the B.S. major. Because the B.S. internship requires full-time effort, students will be allowed to take no more than four (4) credits concurrent with the B.S. internship.

The gerontology prerequisite can only be satisfied by a student having taken GEY 2000 at this university or its equivalent at another institution. The prerequisites of accounting can be fulfilled by taking ACG 2021 and ACG 2071 at this university or comparable work at another institution.

Students interested in either the B.A. or the B.S. option should contact the Department as early as possible in their careers at the University of South Florida.

### Requirements for the Minor in Gerontology

An undergraduate minor in Gerontology is available for students interested in pursuing careers in conjunction with any undergraduate major, but it should be particularly beneficial to persons majoring in such disciplines as anthropology, business, communication sciences and disorders, government and international affairs, nursing, psychology, health care, social work, and sociology. Requirements for the minor in Gerontology are a total of 15 hours of the following courses:

**Required:**
- GEY 2000 (3)

**Required: Choose 2 of the following 3 courses**
- GEY 3601 (3)
- GEY 3625 (3)
- GEY 4612 (3)

**Electives:**
Six additional GEY credit hours.

### Prerequisites (State Mandated Common Prerequisites)

Students wishing to transfer to USF should complete the A.A. degree at the community college. Some courses required for the major may also meet General Education Requirements thereby transferring maximum hours to the university. If students transfer without an A.A. degree and have fewer than 60 semester hours of acceptable credit, the students must meet the university's entering freshman requirements including ACT or SAT test scores, GPA, and course requirements.

The transfer student should also be aware of the immunization, foreign language, and continuous enrollment policies of the university.

For those seeking the Bachelor of Science degree, students complete the **prerequisite courses** listed below prior to being admitted to the upper-division major. Unless stated otherwise, a grade of "C" is the minimum acceptable grade.

- ACG X021 Financial Accounting or ACG X001
- ACG X071 Managerial Accounting or ACG X115 or ACG X630
- CSG X000 Computers in Business or EME X402, ECC X117, CSG X101, X361, X001, or X060
- GEY X000

For those seeking the Bachelor of Arts degree, students should complete STA X122 (Social Science Statistics) at the lower level prior to entering the University. If this course is not taken in the community college, it must be completed before the degree is granted. A grade of "C" is the minimum acceptable grade. Acceptable substitutes for STA X122 are: QMB 2150 or QMB X100, STA 2022, X013, X014, X040, X023, or X024. There are no other common prerequisites for the Gerontology program leading to the Bachelor of Arts degree.

### GOVERNMENT & INTERNATIONAL AFFAIRS (INT/ POL/ PAD)

The Department of Government and International Affairs includes programs in International Studies, Political Science, and Public Administration. Its goal is to provide students the opportunity to study the nature of government, politics and administration at the local, national and international levels, as well as the interdisciplinary nature of the international system. Towards that end it offers students a choice of two undergraduate degrees, one in International Studies and another in Political Science. The Department of Government and International Affairs provides students with a range of courses of study and areas of concentration, including electives offered through the Public Administration program. For more specific details students are advised to consult the description of each specific program below.

### INTERNATIONAL STUDIES (INT)

The major in International Studies enables students to undertake programs of study which emphasize (a) preparation for careers in international activities, or (b) the study of particular international themes or topics, or (c) the study of particular regions or cultures. The program of study is developed by each student in consultation with the International Studies Adviser so as to best serve the education and career goals of the individual.

### Requirements for the Major in International Studies

The major consists of a minimum of 37 semester hours. At least 18 of these hours (six courses) must be from the International Studies Program offerings. The six required courses are:

- INR 3003 (3)
- INR 3081 (3)
- INR 3038 (3)
- INR 4936 (3)
- INR 3003 (3)
- INR 3081 (3)

In addition, 19 hours may be selected from course offerings of other departments, which are approved by the major adviser as having adequate international or cross-cultural content. Students may also take upper level electives from the International Studies curriculum.

With the approval of the major adviser, credits earned in INR 4900 (1-3) and INR 4910 (1-3) may be used to augment or substitute for the foregoing requirements. Students are encouraged, but not required, to engage in study abroad programs, a large number of which have been approved by the USF International Affairs Center. Credits earned in such programs apply toward graduation and many also apply to the INT major.

### Required Supporting Courses

Students must pass a 2000 level foreign language course (that is, at least one semester of foreign language study beyond the first year introductory courses), or complete one year of study of a non-Western language. Students who are bilingual or who are already conversationally fluent in a foreign language text are exempt from the above course requirement, but the INT faculty may require demonstration of proficiency.

Students will be provided with academic advice and counsel about other courses offered throughout the university which may support and complement their major program. INT majors should plan their programs in conjunction with the
Requirements for the Minor in International Studies

The minor in International Studies is a set of International Studies courses taken by a student that approximates one half of the upper level credits required for a major. The minor consists of 18 credit hours made up of six courses as follows: INR 3003 (3), INR 3081 (3), INR 3038 (3), and 3 upper level courses chosen from the International Studies Program’s offerings. Each student's program must be planned with the International Studies Program major adviser, who is empowered to make appropriate substitutions when educationally justified.

Prerequisites (State Mandated Common Prerequisites)

Students wishing to transfer to USF should complete the A.A. degree at the community college. Some courses required for the major may also meet General Education Requirements thereby transferring maximum hours to the university. A minimum of 60 semester hours must be completed at the university unless prior approval is secured. If students transfer without an A.A. degree and have fewer than 60 semester hours of acceptable credit, the students must meet the university's entering freshman requirements including ACT or SAT test scores, GPA, and course requirements. The transfer student should also be aware of the immunization, foreign language, and continuous enrollment policies of the university.

Students should complete two lower level introductory courses in International Relations prior to entering the University. If these courses are not taken at the community college, they must be completed before the degree is granted. A grade of “C” is the minimum acceptable grade. Students are encouraged to complete the following prerequisites, major, support, or elective courses if available, during the program of study at the community college, and when feasible in General Education/Gordon Rule courses.

AMH 2010 American History I 3
AMH 2020 American History II 3
ANT 2000 Introduction to Anthropology 3
ECO 2013 Principles of Economics I 3
ECO 2023 Principles of Economics II 3
Foreign Language 11
GEO 3000 World Geography 3
POS 2041 American National Government 3
Western or World Civilization I, II 6
Courses to improve writing & speaking skills

The undergraduate program leading to the B.A. degree in political science offers a general purpose degree, and a half of the upper level credits required for a major. The minor consists of 18 credit hours made up of six courses as follows: INR 3003 (3), INR 3081 (3), INR 3038 (3), and 3 upper level courses chosen from the International Studies Program’s offerings. Each student’s program must be planned with the International Studies Program major adviser, who is empowered to make appropriate substitutions when educationally justified.

POLITICAL SCIENCE(POL)

The undergraduate program leading to the B.A. degree in political science offers a general purpose degree, and a number of more specialized alternatives. The program is designed for students interested in and seeking to understand political problems and issues, and the nature of the political process, as well as the philosophical and legal basis of political structures and processes at local, state, national, and international levels. Satisfying the degree requirements prepares students for positions in the public and private sectors, for law school, for graduate work in political science, international relations, public administration, and related disciplines, for positions in education, and for applied political activity.

Requirements for the Major in Political Science

A minimum of 36 credit hours is required to satisfy the requirements of the major. Students must take the 12 credit hours of required core courses in political science. No more than six credit hours can be taken from POS 4905, POS 4910, and POS 4941. (A GPA of 3.0 is required to enroll in these courses; special permission may be granted by the Chair for students with a GPA between 2.70 and 2.99).

In addition, all Political Science majors are required to take, at least, 3 credit hours of Economics. (See your advisor for recommendations).

Students transferring credit hours toward a major in political science must complete a minimum of 21 credit hours within the Department, regardless of the number of credits transferred.

The undergraduate curriculum in political science is composed of the following:

Required Core Courses (12 cr. hrs.)
- CPO 2002 (3) or INR 2002 (3)
- POS 2041 (3) or POT 3003 (3) or POS 3713 (3)

Note that either CPO 2002 or INR 2002 must be taken as a core course. However, the other course not taken as a core course may be taken as an elective.

Students should complete POT 3003 and POS 3713 by the end of the first semester of their junior year; students transferring with 45 credit hours or more must complete these courses within their first two semesters in residence at USF. A grade of "C" or better is required in all core courses.

Electives from the seven fields (24 cr. hrs.) with at least one course from Field I, one course from Field II or III, and one course from any of Fields IV, V, VI, or VII: no course from a given field or field grouping can be taken until the core course has been completed.

Field I Political Theory
- POT 3013 (3) or POT 3064 (3) or POT 5626 (3)
- POT 4054 (3) or POT 4204 (3)

Field II Comparative Government and Politics
- CPO 4034 (3) or CPO 4930 (3) or CPO 5934 (3)

Field III International Relations
- INR 3102 (3) or INR 3370 (3) or INR 4403 (3)
- INR 3038 (3) or INR 4035 (3) or INR 4502 (3)
- INR 3336 (3) or INR 4254 (3) or INR 4334 (3)
- INR 5086 (3)

Field IV American National and State Governments
- POS 2080 (3) or POS 3273 (3) or POS 4413 (3)
- POS 2112 (3) or POS 3453 (3) or POS 4424 (3)
- POS 3173 (3) or POS 4204 (3) or POS 5094 (3)
- POS 3182 (3) or PUP 4323 (3)

Field V Urban Government and Politics
- POS 3142 (3) or POS 4165 (3) or URP 4050 (3)
- POS 3145 (3) or POS 5155 (3) or PUP 4534 (3)

Field VI Public Policy
- INR 3102 (3) or INR 4334 (3) or POS 3145 (3)
- PUP 4002 (3) or PUP 4007 (3) or PUP 4203 (3)
- PUP 4323 (3) or PUP 4534 (3) or PUP 5607 (3)
- URP 4050 (3)

Field VII Law and Politics
- INR 4403 (3) or POS 3691 (3) or POS 4624 (3)
- POS 3283 (3) or POS 4614 (3) or POS 4633 (3)

The following courses are not included within any of the seven fields, but may still be used as elective hours:
- PAD 3003 (3) or POS 4936 (3) or PAP 4204 (3)
- POS 4941 (3-15) or POS 4905 (1-3) or POS 4970 (3)
- POS 4910 (1-3) or POS 3931 (3) or POT 4109 (3)
- POT 4661 (3) or POT 4936 (3)

Requirements for the Minor in Political Science

A minor in political science consists of a minimum of 18 credit hours, made up of two courses (6 credit hours) from among CPO 2002 (or INR 2002), POS 2041, and POS 3003. An additional 12 credit hours in regularly scheduled political science courses are required.

Students transferring credit hours toward a minor in political science must complete 12 credit hours within the Department, regardless of the number of credit hours transferred, in order to be certified for a minor.

Field Work

The Department of Political Science has a field work program which provides students with part-time internships...
with state and local government and with political parties at the state and local level. Academic credit is available for such internships. For further information, contact the Department of Government and International Affairs.

Honors in Political Science

Honors in Political Science is designed for the outstanding undergraduate who seeks an intensive program plus academic recognition during the senior year.

Eligibility:
Political Science majors with a 3.5 grade point average in political science courses and a 3.0 overall average will be invited to participate in the honors program.

Requirements:
Students who participate must complete the Honors seminar with a grade of "B" or better and must write an Honors Thesis, POS 4970 (3). The Honors Thesis must meet the following criteria:
- a thesis proposal must be approved by your major professor before you begin writing;
- b) students need two academic advisors who must approve the final version of the thesis;
- c) students will publicly present their thesis and provide a copy of it to the department after the final draft has been approved;
- d) the thesis must be at least 50 pages long, contain an abstract, table of contents, bibliography and footnotes/endnotes;
- e) all theses are due during the last week of classes for the spring semester in which you are writing.

Prerequisites (State Mandated Common Prerequisites)
Students should complete any two introductory courses with a POS, INR or CPO prefix (ideally POS 1041 or POS 2041, and POS 1112 or POS 2112) at the lower level prior to entering the University. If these introductory courses are not taken at the community college, they must be completed before the degree is granted. A grade of "C" is the minimum acceptable grade.
- Economics (any ECO) 6
- ENC 1101 English I--Essay Writing 3
- ENC 1102 English II--Essay Writing 3
- Foreign Language I 4
- Geography (any GEO) 3
- History (any AMH or EUH) 6
- POS 2112 State and Local Government 3
- Psychology (any PSY) 3
- Sociology (any SOC) 3
- SPC 2600 Public Speaking 3

Requirements for the Pre-Law Plan in Political Science

The area of Political Science offers a pre-law plan designed for the undergraduate considering a career related to law. (Courses on Law and Politics are listed under File VII of the Political Science undergraduate curriculum.) The courses making up the field are of particular interest to law-oriented students, but may be taken by others as well. Majors are guided to those courses which develop skills and provide information needed for good performance in the study of law. Students receive the skills and information needed for entry into a number of law-related positions in business and government. An integral part of this plan is a high degree of student access to the Political Science's pre-law advisor.

Prior to admission to law school, a student must take the Law School Admission Test (LSAT). This test is given by the Educational Testing Service of Princeton, New Jersey.

The Law School Admission Test is given simultaneously several times each year at the University of South Florida and numerous other testing centers throughout the state. Students should plan to take the test at least one year prior to planned enrollment in law school. Additional information is available from the Department of Government and International Affairs, University of South Florida.

Prerequisites (State Mandated Common Prerequisites)
Students wishing to transfer to USF should complete the A.A. degree at the community college. Some courses required for the major may also meet General Education Requirements thereby transferring maximum hours to the university. If students transfer without an A.A. degree and have fewer than 60 semester hours of acceptable credit, the students must meet the university's entering freshman requirements including ACT or SAT test scores, GPA, and course requirements.

There are no State Mandated Common Prerequisites for this degree program.

The transfer student should also be aware of the immunization, foreign language, and continuous enrollment policies of the university.

Students are encouraged to complete the following prerequisites, or major, support, or elective courses if available, during the program of study at the community college, and when feasible in General Education/Gordon Rule courses. Unless stated otherwise, a grade of "C" is the minimum acceptable grade.
- AMH 2010 American History I 3
- AMH 2020 American History II 3
- ENC 3310 English--Essay Writing 3
- EUH 1000 World Civilization I 3
- EUH 1101 World Civilization II 3
- POS 2112 State and Local Government 3
- SPC 2600 Public Speaking 3

International Affairs Focus in Political Science

The area of Political Science offers a number of courses that prepare students for graduate study in International Relations and career opportunities in private or public transnational organizations.

Basic courses in the area include:
- INR 2002 Introduction to International Relations
- CPO 2002 Introduction to Comparative Politics
  - INR 3102 American Foreign Policy
In addition, Political Science offers the following upper-level courses:
- CPO 4034 Politics of Developing Areas
- CPO 4930 Comparative Politics of Selected Areas
- INR 4334 Defense Policy
- INR 4035 International Political Economy
- INR 4403 International Law
- INR 4502 International Organizations
- CPO 5934 Selected Topics in Comparative Politics
- INR 5086 Issues in International Relations

Students desiring careers in international affairs or international administration are encouraged to supplement these courses with courses offered in International Studies, Management, Economics, Business Administration, Foreign Languages, and Public Administration.

PUBLIC ADMINISTRATION (PAD)

The Public Administration Program offers courses which serve as electives for undergraduate students. Completion of these courses will benefit those students preparing for a career in local, state, or federal agencies of government, nonprofit organizations, and special service districts and/or graduate work in public administration and related fields. The courses listed below may be taken for undergraduate credit. Please note that the 5000-level courses listed are available to seniors and graduate students only.

- PAD 3003 Introduction to Public Administration
- PAD 4204 Public Financial Administration
- PAD 5035 Issues in Public Administration and Public Policy
- PAD 5333 Concepts and Issues in Public Planning
- PAD 5605 Administrative Law
- PAD 5612 Administrative Regulation
- PAD 5700 Research Methods in Public Administration
- PAD 5807 Administration of Urban Affairs
HISTORY (HTY)

The discipline of history embraces a world of ideas, peoples, and events. Our faculty seek to inform and question, to provoke, and to challenge our students to a higher level of understanding of the past. History at South Florida offers the student an opportunity to explore civilizations from antiquity and from the ancient through contemporary eras. We encourage diversification. Our faculty endeavor to move students beyond traditional memorization of material to a critical level of thinking, analysis, and synthesis.

- **Requirements for the Major in History**
  A minimum of 32 semester hours is required for a major in history. Twelve hours of 2000 level courses, or their equivalent, constitute the lower level requirements. At least 12 hours of course work must be drawn from the 3000-4000 level in addition to HIS 4104 and 4936, which constitute the upper level requirements for the degree. A minimum grade of "C" or better must be attained in each course counted for the 32 hours of history. Grades of "D" or "F" in history coursework will, however, be used in calculating the major GPA unless the course is retaken under the grade forgiveness policy. It is recommended that history majors take ENC 3310, "Advanced Expository Writing," SPC 2023, "Fundamentals of Speech Communication," LIS 2001, "Information Resources and Library Research," and computer service courses. Additional hours may be profitably drawn from the following disciplines: Africana Studies, American Studies, Anthropology, Economics, Geography, Government and International Affairs, Psychology, Philosophy, Sociology, Women's Studies, Literature, the Humanities, and the Fine Arts. Majors intending to pursue graduate work should take a minimum of two years of classical or modern foreign language. Open University courses are not eligible for major field credit.

- **Requirements for the Minor**
  
  The minor in History entails a 15-hour program organized and contracted by the student and the department around the specific needs of the student's major program. A minimum of 8 hours must be completed at the University of South Florida and the student must maintain a 2.0 GPA in the minor. A minimum grade of "C" or better must be attained in each course. Only one lower-level sequence counts, earning 4 credit hours. Certification of the minor will be supervised by the department. Students interested in a minor in history are advised to consult the description of each specific program. Majors may also minor in each area. For more specific details, students are advised to contact the Department of History.

**Prerequisites (State Mandated Common Prerequisites)**

Students wishing to transfer to USF should complete the A.A. degree at the community college. Some courses required for the major may also meet General Education Requirements thereby transferring maximum hours to the university. If students transfer without an A.A. degree and have fewer than 60 semester hours of acceptable credit, the students must meet the university's entering freshman requirements and may elect to take courses for credit in one of the disciplines which will not count as major credit. The transfer student should also be aware of the immunization, foreign language, and continuous enrollment policies of the university.

Students should complete two lower level introductory courses in History prior to entering the University. Students are encouraged to complete the following prerequisites, or major, support, or elective courses if available, during the program of study at the community college, and when feasible in General Education/Gordon Rule courses. If these courses are not taken at the community college, they must be completed before the degree is granted. Unless stated otherwise, a grade of "C" is the minimum acceptable grade.

**Humanities & American Studies (HUM/AMS)**

The Department of Humanities and American Studies offers students a choice of two undergraduate degrees, one in Humanities and one in American Studies. Students may also minor in each area. For more specific details, students are advised to consult the description of each specific program below.

**HUMANITIES (HUM)**

The Humanities Program is an interdisciplinary curriculum that deals with the visual arts, music, literature and the culture from which they emerge. Secondary sources are used sparingly; students are encouraged to make a vigorous, personal response to specific works of art, literature, and music.

- **Requirements for the Major in Humanities**
  1. HUM 2211 (Studies in Culture: the Ancient through the Medieval Periods), six credit hours
  2. 22 credits of upper-level Humanities courses (3000 or 4000 level)
  3. HUM 4931 (Seminar in Humanities), four credit hours; offered only in Fall semester
  4. Two or more classes in the creative or performing arts, either lower or upper level, totaling at least four semester hours.
  5. Majors must earn a "C" or better in all Humanities courses.

- **Requirements for the Minor in Humanities**

  The curriculum for the Humanities minor is comparable to that of the program for the B.A. degree, but it is less comprehensive. Course requirements are as follows:
  1. Eighteen semester hours of Humanities courses.
  2. Not over eight of these eighteen hours may be taken below the 3000 level.

**Prerequisites (State Mandated Common Prerequisites)**

Students wishing to transfer to USF should complete the A.A. degree at the community college. Some courses required for the major may also meet General Education Requirements thereby transferring maximum hours to the university. If students transfer without an A.A. degree and have fewer than 60 semester hours of acceptable credit, the students must meet the university’s entering freshman requirements including ACT or SAT test scores, GPA, and course requirements.

There are no State Mandated Common Prerequisites for this degree program.

The transfer student should also be aware of the immunization, foreign language, and continuous enrollment policies of the university.

Students should complete the following prerequisite courses listed below at the lower level prior to entering the University. If these courses are not taken at the community college, they must be completed before the degree is granted. Unless stated otherwise, a grade of "C" is the minimum acceptable grade.

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Name</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENC 1101</td>
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</tr>
<tr>
<td>ENC 1102</td>
<td>English II</td>
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<tr>
<td>Humanities</td>
<td>(HUM 2000-level courses)</td>
<td>6</td>
</tr>
<tr>
<td>Imaginative Writing</td>
<td>(CRW courses)</td>
<td>3-6</td>
</tr>
</tbody>
</table>

Introductory courses in applied and non-applied Fine Arts (ART, MUS)
AMERICAN STUDIES (AMS)

The American Studies major is designed for students who seek to understand the cultural patterns, beliefs and values that have unified and sometimes divided Americans. American Studies is an interdisciplinary program which emphasizes the diversity of American people and institutions; the importance of gender, race, ethnicity and social class; the material and technological foundations of American society; the development of distinctive regions within the United States; and creative expression in art, architecture, film, literature, music and photography.

• Requirements for the Major in American Studies

36 credit hours, distributed as follows:
1. One 2000-level survey course, either AMS 2201 (Colonial American Culture), AMS 2212 (Nineteenth-Century American Culture) or AMS 2270 (Twentieth-Century American Culture). 3 credits.
2. AMS 2030 (Introduction to American Studies) 3 credits
3. One additional 3000-level period course (e.g. AMS 3230, AMS 3001, AMS 3260). 4 credits.
4. One 3000- or 4000-level regions or genre course (e.g. AMS 3210, AMS 3601, AMS 4152). 3 or 4 credits.
5. AMS 4804 (Major Ideas in America). 3 credits.
6. One 4000-level Research Seminar (AMS 4935 or AMS 4936). 4 credits.
7. 6 additional AMS credit hours.
8. 9-10 additional credit hours of supporting courses to be chosen in consultation with the undergraduate advisor.

• Requirements for the Minor in American Studies

18 credit hours distributed as follows:
1. One 2000-level survey course (AMS 2201, AMS 2212, AMS 2270). 3 credits.
2. AMS 2030 (Introduction to American Studies). 3 credits.
3. 6 additional AMS credit hours.
4. 4 additional credit hours of supporting courses to be chosen in consultation with the undergraduate advisor.

Prerequisites (State Mandated Common Prerequisites)

Students wishing to transfer to USF should complete the A.A. degree at the community college. Some courses required for the major may also meet General Education Requirements thereby transferring maximum hours to the university. If students transfer without an A.A. degree and have fewer than 60 semester hours of acceptable credit, the students must meet the university’s entering freshman requirements including ACT or SAT test scores, GPA, and course requirements.

There are no State Mandated Common Prerequisites for this degree program.

The transfer student should also be aware of the immunization, foreign language, and continuous enrollment policies of the university.

Students are encouraged to complete the following prerequisites, or major, support, or elective courses if available, during the program of study at the community college, and when feasible in General Education/Gordon Rule courses. Unless stated otherwise, a grade of “C” is the minimum acceptable grade.

AMH 2010 American History I 3
AMH 2020 American History II 3
ENC 1101 English I 3
ENC 1102 English II 3
ISS 2221 International Relations 3
POS 2041 American National Government 3

INTERDISCIPLINARY NATURAL SCIENCES (INB/INC/INL/INM/INP)

The Bachelor of Arts in the Interdisciplinary Natural Sciences major is designed for majors seeking a broad program in the natural sciences and for majors in Science Education and Mathematics Education. Concentrations exist in Interdisciplinary Natural Sciences-Biology (INB), Interdisciplinary Natural Sciences-Chemistry (INC), Interdisciplinary Natural Sciences - Clinical Laboratory Sciences (INL), Interdisciplinary Natural Sciences-Geology (ING), Interdisciplinary Natural Sciences-Mathematics (INM), and Interdisciplinary Natural Sciences-Physics (INP). For information on teacher certification in science or mathematics, prospective teachers should consult the section entitled Teacher Education Programs, and also consult the College of Education section of the catalog.

The requirements for graduation for this degree are the same as those contained in Arts and Sciences General Requirements for Degree except for the following:

1a. For Science Education and Mathematics Education Majors only, completion of a major consisting of a minimum of 45 hours in natural sciences courses applicable to majors in the natural sciences. In these emphases, there must be a minimum of 24 credit hours in a discipline of major concentration and a minimum of 16 credit hours in supporting courses outside the discipline of major concentration selected from natural science courses. At least two of the supporting courses must be at the 3000 level or above. The student must earn a grade of "C" or better in each course in the major concentration and in each supporting course.

1b. For Biology (INB), Chemistry (INC), Geology (ING), Mathematics (INM), and Physics (INP) concentrations, there must be a minimum of 24 credit hours in a discipline of major concentration and a minimum core of supporting courses comprising a calculus sequence and the introductory science sequence from each of the following departments:

<table>
<thead>
<tr>
<th>INB</th>
<th>INC</th>
<th>INL</th>
<th>INM</th>
<th>INP</th>
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<tr>
<td>BSC 2010C (4)</td>
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<td>GLY 2100L (1)</td>
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</tbody>
</table>

The student must earn a grade of "C" or better in the major concentration and in each supporting course.

Unstructured courses are not counted to fulfill the major requirements.

1c. The Clinical Laboratory Sciences emphasis is designed to prepare students for application to a clinical program in Medical Technology or Cytology following graduation or employment in a laboratory. Students planning to apply to clinical programs in Medical Technology need to include a course in Immunology. Students contemplating graduation study should pursue a major in the discipline of their interest, such as Biology, Chemistry, or Microbiology. For the Clinical Laboratory Sciences emphasis, completion of a minimum of 54 credit hours in natural sciences with a “C” or higher in each major and supporting course.

Supporting Courses:

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<thead>
<tr>
<th>INB</th>
<th>INC</th>
<th>INL</th>
<th>INM</th>
<th>INP</th>
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</thead>
<tbody>
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<td>BSC 2010, 2010L (3,1)</td>
<td>BSC 2011, 2011L (3,1)</td>
<td>CHM 2041, 2045L (3,1)</td>
<td>CHM 2046, 2046L (3,1)</td>
<td>MAC 2233 (4)</td>
</tr>
<tr>
<td>Major Courses:</td>
<td></td>
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<tr>
<td>BSC 2032 or CHS 4300 (3)</td>
<td>CHM 2210, 2210L (3,2)</td>
<td>CHM 2211, 2211L (3,2)</td>
<td></td>
<td></td>
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<tr>
<td>MCB 3030C (4)</td>
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</table>
INTERDISCIPLINARY SOCIAL SCIENCES (ISS)

The ISS program is designed to provide an interdisciplinary integration of the social sciences for students who are interested in a broad educational experience. ISS offers a wide choice of courses, and an opportunity to design a quality program geared toward individual needs and interests. Students plan their program in ongoing consultation with the advisor who approves each individual curriculum contract.

Specific requirements for a B.A. degree in Interdisciplinary Social Sciences (ISS) include:

1. Required core courses for the major are ISS 3010, ISS 3015, and STA 2122.
2. The ISS student chooses between two cognate areas and completes twelve hours in each. Twenty available cognates (listed below) range from Africana Studies, to Criminal Justice, Sociology, and Women's Studies. In addition, three special electives emphasize cultural diversity.
3. It is suggested that the student work out a program of study at the onset of the junior year, particularly before too many courses are completed in CAS. No student should assume that courses already completed in CAS will automatically count toward the ISS degree.
4. The completion of 42 approved hours of course work from the College of Arts and Sciences (CAS), with a minimum of 30 hours at the 3000 or above level.
5. Students must maintain a minimum grade point average of 2.0 in ISS to graduate.
6. ISS majors must satisfy two semesters of a foreign language in order to graduate.
7. Other personal curricula may be tailored for those highly motivated students with a minimum grade point average of 3.2, developed with the approval of the advisor. This course of study will be directed toward the special educational interests of these students. An in-depth Honors Research Paper will be required of students taking this option.
8. Students in Communications Sciences and Disorders major in ISS with an emphasis in (a) Speech and Hearing Science, (b) Interpreter Training for the Deaf, or (c) American Sign Language. Advising for this concentration is handled at the Communication Sciences and Disorders Department.

Prerequisites (State Mandated Common Prerequisites)

Students wishing to transfer to USF should complete the A.A. degree at the community college. Some courses required for the major may also meet General Education Requirements thereby transferring maximum hours to the university. If students transfer without an A.A. degree and have fewer than 60 semester hours of acceptable credit, the students must meet the university's entering freshman requirements including ACT or SAT test scores, GPA, and course requirements.

There are no State Mandated Common Prerequisites for this degree program.

Students are encouraged to complete the following prerequisites, or major, support, or elective courses if available, during the program of study at the community college, and when feasible in General Education/Gordon Rule courses. Unless stated otherwise, a grade of "C" is the minimum acceptable grade.

One year each, if offered, of:
- Biology I (BSC 2010, 2010L) and Biology II (BSC 2011, 2011L)
- Calculus (MAC 2312 and MAC 2313 or MAC 2311 and MAC 2312)
- General Chemistry (CHM 2041, CHM 2045L, and CHM 2046, CHM 2046L)
- General Physics (PHY 2053, PHY 2053L and PHY 2054, PHY 2054L)
- History of the Earth and Life (GLY 2100, GLY 2100L)

Select from the following list noting prerequisites where applicable:
- BOT 4434C, MCB 4155
- MCB 4404, 4404L, PCB 3023, 3023L
- PCB 3063, 3063L, PCB 4064C
- PCB 5115C, PCB 5235
- ZOO 4753C

Majors sciences electives in Biology, Chemistry, or Physics to total minimum of 54 hours. Select from the following list, noting prerequisites where applicable, and not duplicating courses used to meet the above requirements:
- BCH 3023, BCH 3023L, BCH 4034
- BOT 4434C, CHM 3120C, CHM 4060
- CHS 4100C, CHS 4300, CHS 4301L
- MCB 4115C, MCB 4404, MCB 4404L
- MCB 4502C, MCB 5206, MCB 5815
- PCB 3023, PCB 3023L, PCB 3063
- PCB 3063L, PCB 4064C, PCB 4723
- PCB 4723L, PCB 5235, PCB 5525
- PHY 2053, PHY 2053L, PHY 2054
- PHY 2054L, ZOO 4753C, ZOO 5235

NOTE: Transfer students with credit for two semesters of anatomy and physiology with laboratories may substitute these courses for BSC 2011, 2011L.

Computer competency is essential for work in a modern laboratory. Students lacking computer skills should take CGS 2060.

Transfer students with credit for two semesters of Statistics is the third core course required for majors in ISS with an emphasis in (a) Speech and Hearing Science, (b) Interpreter Training for the Deaf, or (c) American Sign Language. Advising for this concentration is handled at the Communication Sciences and Disorders Department.

COGNATE AREAS - you select two areas, and take 12 hours in each. Cognates must be selected from the areas of study listed below:
- AFA, ANT, CCJ, ECN, EVR, GEY, GPY, HTY, HUM, HUS, INT, ISA, ISH, LAS, PAD, POL, PSY, SOC, SOW, and WST.

Interdisciplinary Core Courses

Two of these courses, an introductory course (3010) and the senior seminar (4935), introduce and employ the interdisciplinary social science perspective. These courses involve students in the study of human systems; the various concepts, theories and methods studied in the social sciences; and apply them to the issues of the day. Social Science Statistics is the third core course required for majors in Interdisciplinary Social Sciences.

Prerequisites (State Mandated Common Prerequisites)

Students wishing to transfer to USF should complete the A.A. degree at the community college. Some courses required for the major may also meet General Education Requirements thereby transferring maximum hours to the university. If students transfer without an A.A. degree and have fewer than 60 semester hours of acceptable credit, the students must meet the university's entering freshman requirements including ACT or SAT test scores, GPA, and course requirements.

Please be aware of the immunization, foreign language, and continuous enrollment policies of the university.

There are no State Mandated Common Prerequisites for the ISS degree program.

Some of the following courses if available, during the program of study at the community college, and when feasible in General Education/Gordon Rule courses, could count toward the ISS degree. A grade of "C" is the minimum acceptable grade.

- AFA 2000 Black Experience 3
- AMH 2010 or 2020 American History 3
- ANT 2000 Introduction to Anthropology 3
LANGUAGES AND LINGUISTICS

The Division of Languages and Linguistics offers students several undergraduate degrees. Although a baccalaureate degree is not offered in Linguistics, a minor is available to students. Comprehensive information about these programs is listed below.

CLASSICS (CLS)
The major in Classics is designed to meet the needs of students who desire competence in Latin and/or Greek and a broad understanding of ancient culture and literature. The major is of interest to students who wish to teach the languages to those who plan graduate study in a humanistic discipline, and to those who want an undergraduate major which focuses on the ancient civilizations which are the cornerstone of the Western tradition.

• Requirements for the major in Classics:
The major in Classics requires 10 courses, earning a minimum of 30 credit hours. Of those courses, a minimum of 4 courses must consist of language courses in any combination of courses offered in Latin (LAT and LNW) and in Greek (GRE and GRW). The remaining 6 courses are to be chosen from a list of approved courses with the advice of the Classics advisor.

• Requirements for the minor in Classics:
The minor in Classics Greek or Latin consists of 4 courses, earning a minimum of 12 credit hours, chosen from a list of approved courses with the advice of the Classics advisor.

HONORS PROGRAM
Admissions Criteria
1. Senior status.
2. Completion of the “core” courses required for a major in the Department with a GPA above 3.5.
3. An overall GPA above 3.0.
4. Two letters of recommendation from Departmental faculty followed by Departmental approval.

Dismissal Procedures
The student must maintain a Departmental GPA of 3.5, must submit the Honors Thesis on time, and must pass the scheduled Departmental Honors Examination. Otherwise, the candidate receives no Honors.

Requirements for Completion of Departmental Honors:
1. Completion of requirements for a major in the Department with a GPA above 3.5 and an overall GPA of 3.0.
2. Acceptance of a Senior Thesis by a committee of faculty members in the Department.
3. A grade of “A” on a sight translation from a Latin or Greek author.
4. A written examination on a designated area of Latin or Greek literature (for example, the Golden Age, the Silver Age, etc.).
5. Successful completion of an upper-level Greek or Latin course designated as an Honors Seminar.

Prerequisites (State Mandated Common Prerequisites)
Students wishing to transfer to USF should complete the A.A. degree at the community college. Some courses required for the major may also meet General Education Requirements through transferring maximum hours to the university. If students transfer without an A.A. degree and have fewer than 60 semester hours of acceptable credit, the students must meet the university’s entering freshman requirements including ACT or SAT test scores, GPA, and course requirements.

The transfer student should also be aware of the immunization, foreign language, and continuous enrollment policies of the university.

Students should demonstrate proficiency at the intermediate level within the target language. This may be accomplished by completing 6-12 hours within the language or by demonstrated competency at the intermediate level. If this coursework (or associated competency) is not completed at the community college, it must be completed before the degree is granted. A grade of “C” is the minimum acceptable grade. Students are encouraged to complete the following prerequisites, or major, support, or elective courses if available, during the program of study at the community college, and when feasible in General Education/Gordon Rule courses.

LINGUISTICS (LIN)
Linguistics is primarily an upper-level and graduate discipline with strong interdisciplinary concerns. Although no baccalaureate degree is offered, the minor in linguistics may provide a broader educational experience for students majoring in adjacent arts and sciences such as Anthropology, Communication, Communication Sciences and Disorders, English, Foreign Languages, Philosophy, Psychology, Sociology, and others.

• Requirements for the Minor:
The minor in Linguistics requires a minimum of 18 semester hours as follows:

<table>
<thead>
<tr>
<th>Course</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>LIN 3010</td>
<td>3</td>
</tr>
<tr>
<td>plus 15 semester hours from the following:</td>
<td></td>
</tr>
<tr>
<td>ANT 3610</td>
<td>3</td>
</tr>
<tr>
<td>CLT 3040</td>
<td>3</td>
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<tr>
<td>DEP 4135</td>
<td>3</td>
</tr>
<tr>
<td>EXP 4640</td>
<td>3</td>
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<tr>
<td>LIN 3801</td>
<td>3</td>
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<tr>
<td>LIN 4040</td>
<td>3</td>
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<tr>
<td>LIN 4600</td>
<td>3</td>
</tr>
<tr>
<td>LIN 4710</td>
<td>3</td>
</tr>
<tr>
<td>SPC 3210</td>
<td>3</td>
</tr>
<tr>
<td>SPC 3712</td>
<td>3</td>
</tr>
</tbody>
</table>

MODERN LANGUAGES (FRE/GER/GRK/ITA/POR/RUS/SPA)
Foreign Language major programs are designed to meet the needs of students who desire competency in a language and an expanded understanding of its culture and literature. They are of particular interest to students who wish to teach languages, those who plan to further their studies in graduate school, and those who seek careers in various types of foreign or foreign-related employment, either in government or business.

Major programs leading to the bachelor of arts degree are offered in French, German, Italian, Russian, and Spanish. All major programs in foreign language require a total of 32 hours of coursework above the intermediate level.

The following languages may also be taken as a minor: French, German, Italian, Latin, Modern Greek, Portuguese, Russian, and Spanish. The minor consists of 15 hours of course work in French and Spanish above the second-year level, and 15 hours in the other languages except for the less commonly taught languages. In order to begin taking courses for the minor, the student will have satisfactorily completed the intermediate level or have equivalent proficiency in the foreign language. Instruction in less commonly taught languages may be available upon sufficient demand.
• French (FRE)
  Required courses for the major (15 cr. hrs.)
  FRE 3230 (3)  FRW 4100 (3)
  FRE 2240 (3)  FRW 4101 (3)
  FRE 3420 (3)
  Supporting courses required for the major
  17 hours in 3000, 4000, or 5000 level courses planned with
  the advisor.
  Required courses for the minor (6 cr. hrs.)
  FRE 2240 (3)  FRE 3420 (3)

• German (GER)
  Requirements for the major (14 cr. hrs.)
  GER 2240 (3)  GEW 4100 (4)
  GER 3420 (3)  GEW 4101 (4)
  Supporting courses required for the major
  18 hours in 3000, 4000, or 5000 level courses, including
  approved courses in related disciplines, planned with the
  advisor.
  Required courses for the minor (6 cr. hrs.)
  GER 2240 (3)  GER 3420 (3)
  Supporting courses required for the minor
  10 hours in 3000, 4000, or 5000 level courses except
  courses in translation.

• Modern Greek (GRK)
  Required courses for the minor (16 cr. hrs.)
  GRK 2200 (4)  GRK 4905 (4)
  GRK 2201 (4)  GRK 4930 (4)

• Italian (ITA)
  Required courses for the major (15 cr. hrs.)
  ITA 2240 (4)  ITW 4100 (4)
  ITA 3420 (3)  ITW 4101 (4)
  Supporting courses required for the major
  17 hours in 3000 or 4000 level courses, including
  approved courses in related disciplines, planned with the
  advisor.
  Required courses for the minor (7 cr. hrs.)
  ITA 2240 (4)  ITA 3420 (3)
  Supporting courses required for the minor
  9 hours in 3000 or 4000 level courses except courses in
  translation.

• Russian (RUS)
  Required courses for the major (14 cr. hrs.)
  RUS 3240 (4)  RUT 3110 (3)
  RUS 4241 (4)  RUT 3111 (3)
  Supporting courses required for the major
  18 hours in 3000 or 4000 level courses planned with the
  advisor.
  Required courses for the minor (8 cr. hrs.)
  RUS 3240 (4)  RUS 4241 (4)
  Supporting courses required for the minor
  8 hours in 3000 or 4000 level courses.

• Spanish (SPA)
  Required courses for the major (15 cr. hrs.)
  SPN 3300 (3)  SPW 4301 (3)
  SPW 4101 (3)  SPW 4131(3)
  SPW 4100 (3)
  Supporting courses required for the major
  17 hours in 3000, 4000 or 5000 level courses planned with
  the advisor.
  Required courses for the minor (3 cr. hrs.)
  SPN 3300 (3)
  Supporting courses required for the minor
  12 hours in 3000, 4000 or 5000 level courses except
  courses in translation.

Prerequisites (State Mandated Common Prerequisites)
Students wishing to transfer to USF should complete the
A.A. degree at the community college. Some courses re-quired for
the major may also meet General Education Requirements
thereby transferring maximum hours to the university. If stu-
dents transfer without an A.A. degree and have fewer than 60
semester hours of acceptable credit, the students must meet
the university’s entering freshman requirements including
ACT or SAT test scores, GPA, and course requirements.
The transfer student should also be aware of the immuni-
zation, foreign language, and continuous enrollment policies
of the university.
Students should demonstrate proficiency at the interme-
diate level within the target language. This may be accom-
plished by completing 6-12 hours within the language or by
demonstrated competency at the intermediate level. If this
coursework (or associated competency) is not completed at
the community college, it must be completed before the
degree is granted. Students are encouraged to complete the
following prerequisites, or major, support, or elective courses
if available, during the program of study at the community
college, and when feasible in General Education/Gordon
Rule courses. Unless stated otherwise, a grade of “C” is the
minimum acceptable grade.
ECN 1101 English I
ECN 1102 English II
Social Science (any HIS, SOC, ANT, etc.)
Humanities (any HUM)
Beginning and Intermediate "Target Language" (XXX 1120, 1121, and 2200) 14-19

■ LIBERAL STUDIES (ALA)

The Liberal Studies Degree fulfills the intent of the tradi-
tional Liberal Arts Degree and is for students who want a
broad academic background to realize their academic or
career goals.
For admission to the program, the students must (1) have
completed a minimum of 20 and no more than 80 semester
hours, (2) have a minimum overall grade point average of 3.00
at the time of admission, and (3) submit a written proposal,
and program of study, explaining the student’s special aca-
demic circumstances and goals for which this major is
appropriate. This proposal must be approved by the faculty
committee of three professors (Chair to be selected by the
student) to be assembled by the student and the Director
of the Major who is located in the Dean’s Office.
The student must complete the General Education Re-
quirements (and all other university requirements), and a
minimum of 4 semesters of one foreign language. The
remaining hours will be devoted to interdisciplinary study in
the College of Arts and Sciences. Ideally, the hours will include
courses in the social sciences, humanities, and natural sci-
ciences. In the student’s last semester, a senior paper must be
approved by the faculty committee.
For information, contact the Associate Dean for Academic
Affairs in SOC 102.

Prerequisites (State Mandated Common Prerequisites)
Students wishing to transfer to USF should complete the
A.A. degree at the community college. Some courses re-quired for
the major may also meet General Education Requirements
thereby transferring maximum hours to the university. If stu-
dents transfer without an A.A. degree and have fewer than 60
semester hours of acceptable credit, the students must meet
the university’s entering freshman re-
requirements including ACT or SAT test scores, GPA, and course requirements.
There are no State Mandated Common Prerequisites for
this degree program.
The transfer student should also be aware of the immuni-
zation, foreign language, and continuous enrollment policies
of the university.

■ LIBRARY AND INFORMATION
SCIENCE (LIS)
The School of Library and Information Science offers
undergraduate classes to meet a wide range of information
literacy needs in support of the university’s academic pro-
programs. The courses provide the understanding and skills needed to access and evaluate information resources in an increasingly information-driven, technological world, whether in support of scholarship in academic disciplines or the occupational demands of society.

Students are able to take a variety of classes that will prepare them to access and evaluate these information resources. Topics taught in these classes include: using the Internet to answer educational and research needs; designing and creating web pages; efficiently finding and using the information resources of the modern, and increasingly electronic, library.

The School's faculty will counsel those undergraduates interested in graduate study in librarianship. The Library and Information Science Master's program is accredited by the American Library Association, and graduates are prepared for professional positions in all types of libraries, media centers, and information agencies. The Library and Information Science program at the University of South Florida meets the Florida State Board of Education requirements for certification as an Educational Media Specialist (grades K-12). For more information, visit our web site at http://www.cas.usf.edu/lis.

**MARINE SCIENCE (MSC)**

Although the department does not offer an undergraduate degree, graduate courses in the Department of Marine Science are open to advanced undergraduates in other natural science disciplines. In addition, the Department of Marine Science has recently increased the number of courses specifically geared for undergraduates; consult the Schedule of Classes for course titles currently being offered. Some Department of Marine Science courses are available on all campuses by means of distance learning.

The Department of Marine Science (DMS) at the University of South Florida 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 26 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 departmental facilities is available from the department upon request.

The department's location on St. Petersburg's Bayboro Campus affords 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.). These vessels are operated by the Florida Institute of Oceanography (FIO) for the entire State University System. The department's principal building is shared with FIO and is adjacent to the Florida Marine Research Institute (FMRI), the research arm of the Florida Department of Environmental Protection. A newly occupied research building is shared by DMS and FMRI and houses a remote-sensing, satellite data-acquisition center. The U.S. Geological Survey (USGS) center for Coastal Geology and Regional Studies, the office of the Tampa Bay National Estuary Program, FMRI, and the Department of Marine Science are all located on the Bayboro Campus. Consequently, St. Petersburg is home to one of the largest concentrations of marine scientists in the southeastern United States; many of these scientists serve on advisory committees of DMS graduate students.

**MASS COMMUNICATIONS (COM)**

The School of Mass Communications, accredited by the Accrediting Council on Education in Journalism and Mass Communications, offers approximately 70 courses varying in content from the highly technical and field-specialized in some cases to an essential liberal arts orientation in others. The program introduces students to the theories, principles, and problems of communications, emphasizing the concept of freedom of information as the cornerstone of Constitutional Democracy and preparing students for future leadership roles in communications media. Graduates should understand the structure and functions of mass media systems as well as the basic processes of communication. In addition, students specialize in an area of mass communications (advertising, journalism, public relations, or telecommunications) to blend a strong introduction to professional skills with the theoretical orientation.

 Majors seeking careers in the mass media will be directed to the various media with which the School maintains close contact for summer internships, practica and part-time work. A limited number of students will have the opportunity to serve as interns with a mass communications organization and take MMC 4945 for three hours credit. See MMC 4945 in catalog course listings. Students may not receive credit for both an internship (MMC 4945) and a practicum (ADV 4940, JOU 3940, JOU 4941, JOU 4944, PUR 4700, RTV 3941, RTV 4942, VIC 3943).

- **Requirements for the Major in Mass Communications**

To be admitted to the core curriculum in Mass Communications, students must have completed general education requirements including a minimum of 45 hours with a 2.7 minimum Overall Grade Point Average, and ENC 1101 and 1102 with a minimum grade of "C" in each. Applicants must enroll in MMC 2100 (Writing for Mass Media). (Students who transfer MMC 2100 or its equivalent must pass the Mass Communications Diagnostic Test with a score of at least 70 percent, which is the same score required for the successful completion of MMC 2100 at USF.) Both courses in the Mass Communications core curriculum (MMC 2100 and MMC 3602) must be completed with a minimum grade of "C" before any other Mass Communications course may be taken. Students failing to achieve a minimum grade of "C" in both MMC 2100 and MMC 3602 will be disqualified as majors in the School. A 2.5 GPA in Mass Communications courses is required for graduation, and no student may graduate with a grade lower than "C" in any Mass Communications course.

The Mass Communications major requires six hours of core curriculum courses (MMC 2100 and MMC 3602) and 28 hours of a combination of required and selective sequence courses for a total of 34 hours in Mass Communications within the required 124-hour degree requirement. Six hours in Mass Communications writing courses (three hours in addition to MMC 2100) are a part of the graduation requirement.

Mass Communications majors are required to take a minimum of 90 hours in courses outside the journalism and mass communications areas, with no fewer than 65 hours in the basic liberal arts and sciences. (Liberal Arts courses are listed in materials available from the School program advisor.) To facilitate this, no more than 34 hours of Mass Communications courses may be applied toward the bachelor's degree within the 124-hour graduation requirement. Mass Communications majors taking more than 34 hours of Mass Communications courses, regardless of the departments in which those courses are listed, must add those hours to the 124 hours required for graduation. In particular, film and photography courses offered in other departments may be considered to be Mass Communications courses and added to the 124-hour degree requirement.

A maximum of nine semester hours in Mass Communications courses will be accepted from a community college or other lower-level program toward a degree in Mass Communications. It is suggested that the nine hours include the equivalent of the School core curriculum and one sequence introduction course. Approval by an appropriate advisor is required.

At least nineteen (19) hours of resident School courses are required.
All material submitted by students as assignments in writing, painting, editing, photography and electronic news gathering and production classes is subject to publication or broadcast. The School uses a variety of print and electronic media outlets.

Sign Language may be used as an option by Mass Communications majors to fulfill the language requirement. Most Mass Communications courses have prerequisites. They are specified in the course description. Refer to each prerequisite listed to determine progressive prerequisites for each course. Students also should note that the Mass Communications major is a four-semester program at a minimum and the majority of courses are offered only during the day (except at the USF St. Petersburg campus where an evening schedule is available).

The School sequence requirements are:

**School Core Curriculum**
- MMC 2100 (3)
- MMC 3602 (3)

**Sequence Requirements**

1. **ADVERTISING Requirements**
   - ADV 3000 (3)
   - ADV 4800 (3)
   - MMC 4203 (3)
   - ADV 3101 (3)
   - ADV 4940 (1)
   - MMC 4420 (3)
   - ADV 3300 (3)

2. **SELECTIVE Requirements** (9 hours required, selected with advisor's approval)

3. **PUBLIC RELATIONS Requirements**
   - MMC 2100 (3)
   - MMC 3602 (3)

**Other Requirements**

The following courses are required outside the School to complete sequence requirements:
- ACC 3074, ECO 1000, and MAR 3023. See specific courses for prerequisites.

2. **JOURNALISM Requirements**

News-Editorial Option
- JOU 2100 (3)
- JOU 4200 (3)
- JOU 4206 (3)
- JOU 3101 (3)
- MMC 4200 (3)
- JOU 4104 (3)
- PGY 3610 (3)

Selective Requirements (10 hours required, selected with advisor's approval)
- Magazine Option
  - JOU 2100 (3)
  - JOU 3300 (3)
  - MMC 4200 (3)
  - JOU 3101 (3)
  - JOU 4200 (3)
  - MMC 4420 (3)
  - MMC 4936 (3)

3. **TELECOMMUNICATIONS Requirements**

News Option
- MMC 4200 (3)
- RTV 3001 (3)
- RTV 4304 (3)
- MMC 4420 (3)
- RTV 3301 (4)

Programming and Production Option
- MMC 4200 (3)
- RTV 3001 (3)
- RTV 4302 (3)
- MMC 4420 (3)
- RTV 3301 (4)
- RTV 4500 (3)
- RTV 2100 (3)
- RTV 4220 (3)

Selective Requirements (3 hours required, selected with advisor's approval)

4. **TELECOMMUNICATIONS Requirements**

News Option
- MMC 4200 (3)
- RTV 3001 (3)
- RTV 4304 (3)
- MMC 4420 (3)
- RTV 3301 (4)
- RTV 4500 (3)
- RTV 2100 (3)
- RTV 4220 (3)

Selective Requirements (12 hours required, selected with advisor's approval)

Other Requirements: The following courses are required outside the School to complete sequence requirements:
- For News: ORI 2000, PHI 1103, POS 2041, POS 2112 or POS 3142, and SPC 2500.
- For Programming and Production: CRW 2100 or ENC 3310, and PHI 1103. See specific courses for prerequisites.

Prerequisites (State Mandated Common Prerequisites)

This is a limited access program. Students wishing to transfer to USF should complete the A.A. degree at the community college. Some courses required for the major may also meet General Education Requirements thereby transferring maximum hours to the university. If students transfer without an A.A. degree and have fewer than 60 semester hours of acceptable credit, the students must meet the university’s entering freshman requirements including ACT or SAT test scores, GPA, and course requirements.

The minor in Mass Communications is available to students pursuing any other major at USF. Students who wish to minor must apply for admission to the School of Mass Communications and must meet all admission standards required of majors. Please see "Requirements for the Major in Mass Communications" for more admission information.

The minor in Mass Communications requires a minimum of 18 hours of School coursework, including:
- MMC 2100 (3)
- MMC 3602 (3)

The other 12 hours may be selected from among School offerings and must include a minimum of 9 hours at the 3000-level or higher. All major course prerequisites must be met. A grade of "D" or "F" will not be counted toward a mass communications minor and a 2.5 grade point average in all minor coursework must be maintained. All minor hours must be completed at USF.

**MATHEMATICS (MTH)**

The Department of Mathematics offers a diversity of courses designed not only to enable the student to pursue a profession in mathematics itself, but also to enhance the student's competence in the fields of engineering, the physical sciences, and the social sciences. The department offers programs leading to the B.A., M.A., and Ph.D. degrees. The undergraduate program emphasizes the broad nature of modern mathematics and its close associations with the real world. The program is designed to prepare students for entry into graduate school or careers in industry or secondary education.

The Department of Mathematics consists of 30 full-time faculty members, whose areas of interest include: algebra, applied mathematics, approximation theory, celestial mechanics, complex analysis, dynamical systems, functional analysis, graph theory, logic, number theory, ordinary differen-
tial equations, partial differential equations, potential theory, probability theory, real analysis, statistics, theoretical computer science, and topology.

- **Requirements for the Major in Mathematics**
  The courses taken to satisfy the requirements below will constitute the major program referred to in the general graduation requirements of the College of Arts and Sciences. A minimum of 12 hours of 4000 level or higher mathematics courses must be taken in residency and must be applicable to the major.

1. **Mathematics Requirement** (Min. 45 cr. hrs.)
   Majors must complete the following core courses:
   - COP 4313 Symbolic Computations in Mathematics 3
   - MAA 4211 Intermediate Analysis I 4
   - MAC 2311 Calculus I 4
   - MAC 2312 Calculus II 4
   - MAC 2313 Calculus III 4
   - MAP 2302 Differential Equations 3
   - MAS 3105 Linear Algebra 3
   - MAS 4301 Elementary Abstract Algebra 3
   - MAT 2233 Technology Seminar 1
   - MAT 4937 Mathematics Majors Seminar 1
   - MGF 3301 Bridge to Abstract Mathematics 3
   - STA 4442 Introduction to Probability 3

   In addition, majors must complete three (3) courses from the following electives:
   - CGS 3414 Problem Solving Using Pascal or C 3
   - MAA 4212 Intermediate Analysis II 3
   - MAA 4402 Complex Variables 3
   - MAD 4401 Numerical Analysis 4
   - MAD 4504 Theory of Computation 3
   - MAD 5305 Introduction to Graph Theory 3
   - MAP 5345 Applied Partial Differential Equations 3
   - MAP 5407 Methods of Applied Mathematics 3
   - MAS 4124 Numerical Linear Algebra 3
   - MAS 4156 Vector Calculus 3
   - MAS 5215 Number Theory 3
   - MGF 5405 History of Modern Mathematics 3
   - MGF 5406 History of Mathematics 3
   - MAT 4302 Introduction to Topology 3
   - STA 4321 Introduction to Statistics 3
   - STA 5166 Computational Statistics 3
   - STA 5228 Sampling Techniques 3
   - STA 5327 Introduction to Probability 3
   - STA 5428 Sampling Techniques 3
   - STA 5442 Introduction to Probability 3

   Special topics courses, listed under MAT 4930, or other 5000-level mathematics courses can also be taken as electives, with the approval of an undergraduate advisor. In addition, one elective of high mathematical content can be taken from another department, with the approval of an undergraduate advisor and the chairman.

   An undergraduate advisor will work with the student in recommending electives which are appropriate for the student's interests and goals.

   The following is a typical mathematics course program for mathematics majors:

   **Semester 1**
   - MAC 2311 Calculus I 4
   - MAT 2936 Technology Seminar 1

   **Semester 2**
   - MAC 2312 Calculus II 4
   - MAT 2936 Technology Seminar 1

   **Semester 3**
   - MAC 2313 Calculus III 4
   - MGF 3301 Bridge to Abstract Mathematics 3

   **Semester 4**
   - MAP 2302 Differential Equations 3
   - MAS 3105 Linear Algebra 3

   **Semester 5**
   - MAS 4301 Elementary Abstract Algebra 3
   - COP 4313 Symbolic Computations in Mathematics 3

   **Semester 6**
   - STA 4442 Introduction to Probability 3
   - Elective 3-4

2. **Elective Courses** (Min. 6 cr. hrs.)
   Any 2 courses (3 or more credit hours each) which are required or elective for the major in mathematics.

3. **Requirements for the Minor in Mathematics**
   The minor in mathematics is open to all students. Students with majors in the sciences, engineering, business, and the social sciences are particularly encouraged to pursue the minor. A student wishing to receive a minor in mathematics must meet the following course requirements (minimum of 24 cr. hrs.):

   1. **Required Courses** (18 cr. hrs.)
      Either
      - MAC 2311 Calculus I 4
      - MAC 2312 Calculus II 4
      - MAC 2313 Calculus III 4

      Or
      - MAC 2281 Engineering Calculus I 3
      - MAC 2282 Engineering Calculus II 3
      - MAC 2283 Engineering Calculus III 3
      - MAP 2302 Differential Equations 3

   2. **Elective Courses** (Min. 6 cr. hrs.)
      Any 2 courses (or more credit hours each) which are required or elective for the major in mathematics.

   - **Teacher Education Programs**
     For information concerning the degree programs for secondary school teachers, see the description given in the Mathematics Education section of this catalog.

   - **Technical Concentrations**
     The Department of Mathematics offers specialized technical concentrations within the general Bachelor of Arts degree in mathematics that emphasize a subfield of Environmental Science. These concentrations are more structured than the general B.A. program and require additional study in a related field comparable to earning a minor in that field. This cross disciplinary training prepares the student for a career in Environmental Science. Furthermore, the student is able to pursue graduate work in either mathematics or the related field.

   - **Environmental Biology Concentration**
     1. Mathematics requirement
        Completion of the mathematics major, including
        STA 4321 Introduction to Statistics 3

     2. Supporting courses
        - CHM 201 C201C Introductory General Chemistry 3
        - CHM 2045 General Chemistry I Lab 1
        - CHM 2046 General Chemistry II 3
        - CHM 2046L General Chemistry II Lab 1

     3. Biology courses
        - BSC 2010 Biology I - Cellular Processes 3
Accelerated BA/MA Program
This program is designed for superior students who wish to obtain a B.A. degree that will indicate unusual strength in the field of mathematics. Successful completion of the program will be prominently displayed on the student's diploma and will be recorded on the official U.S.F. transcript of the student's work.

Students are eligible for admission to the program when they
1. have completed Elementary Abstract Algebra (MAS 4301),
2. have at least a 3.0 average in all college courses, and
3. have at least a 3.5 average in college mathematics courses.

Applications are submitted to the Undergraduate Committee of the Department of Mathematics.

The requirements for a B.A. degree in mathematics with honors are as follows:
1. completion of requirements for the major in mathematics,
2. six credit hours of graduate mathematics courses at USF,
3. completion of MAT 4970, Mathematics Senior Thesis,
4. at least a 3.0 average for all courses, and
5. at least a 3.5 average for mathematics courses.

Prerequisites (State Mandated Common Prerequisites)
Students wishing to transfer to USF from a Florida Community College should complete the A.A. degree at the community college. Some courses required for the major may also meet General Education Requirements thereby transferring maximum hours to the university.

A student who transfers without an A.A. degree and has fewer than 60 semester hours of acceptable credit must meet the university's entering freshman requirements including ACT or SAT test scores, GPA, and course requirements. The transfer student should also be aware of the immunization, foreign language, and continuous enrollment policies of the university.

Students should complete the following prerequisite courses listed below at the lower level prior to entering the University. If these courses are not taken at the community college, they must be completed before the degree is granted.

Unless stated otherwise, a grade of "C" is the minimum acceptable grade.

COPxxx Computer Language Course
(Pascal, FORTRAN, C, C++, or C++)
MACX311 Calculus I
MACX312 Calculus II
MACX313 Calculus III

Students must also complete two laboratory-based science courses, 4 - 8 semester hours total, from the respective science majors: Biology, Chemistry, Geology, or Physics.

MEDICAL TECHNOLOGY (MET)

The University of South Florida offers a four-year program leading to the Bachelor of Science degree in Medical Technology. The first three years are completed on campus; the fourth year (12 months) is completed at one of five affiliated hospitals in Florida, located in Tampa, Orlando, and Jacksonville. Admission to the fourth year is limited by the number of openings in affiliated hospitals, and at the present time is competitive. Selection for the clinical program is made by the hospital and students not admitted to a clinical program may need to select an alternative degree. Generally, hospitals require a minimum GPA of 2.5, and our students admitted to clinical programs in recent years have had a mean GPA of about 3.0.

All courses required for admission to the clinical program must be completed prior to beginning the clinical year. These requirements include:
1. A minimum of 90 semester hours (excluding physical education.)
2. All University Liberal Arts requirements.
3. Writing and computation requirements for 6A-10.30.
4. All sciences and mathematics requirements listed below.
including Common Prerequisites and those specific to USF, with a "C" or higher in each course.

Prerequisites (State Mandated Common Prerequisites)

Students wishing to transfer to USF should complete the A.A. degree at the community college. Some courses required for the major may also meet General Education Requirements thereby transferring maximum hours to the university.

A student who transfers without an A.A. degree and has fewer than 60 semester hours of acceptable credit must meet the university’s entering freshman requirements including ACT or SAT test scores, GPA, and course requirements. The transfer student should also be aware of the immunization, foreign language, and continuous enrollment policies of the university.

Students should complete the following prerequisite courses listed below at the lower level prior to entering the University. If these courses are not taken at the community college, they must be completed before the degree is granted.

Unless stated otherwise, a grade of "C" is the minimum acceptable grade. They may be completed at a community college, another institution or at USF. Courses available at the university.

Students are indicated with an asterisk.

1) General Biology I with lab (4)
   (e.g. BSC 1010, 1010L; BSC 2010, 2010L*)
2) Human Anatomy and Physiology I with lab (4)
   (e.g. BSC 1085, 1085L; BSC 2085, BSC 2085L*) and
   Human Anatomy and Physiology II with lab (4)
   (e.g. BSC 1086, 1086L; BSC 2086, BSC 2086L*)
3) Cell Biology with lab (4)
   (e.g. PCB 3023, 3023L*)
4) General Microbiology with lab (4)
   (e.g. MCB 2010, 2010L; MCB 3030C*)
5) General Chemistry I & II with labs (8)
   (e.g. CHM 1045, 1045L, 1046, 1046L; CHM 2041, 2045L, 2046, 2046L*)
6) Organic Chemistry I with lab (4-5)
   (e.g. CHM 2210, 2210L*)
7) Organic Chemistry II with lab (4-5)
   (e.g. CHM 2211, 2211L*)
   or
   Quantitative Analysis (4)
   (e.g. CHM 2120C; CHM 3120C*)
8) Statistics (3-4)
   (e.g. STA 2023*)

In addition to the Common Prerequisites listed above, the following courses are required for the degree at USF:

College Algebra (MAC 2102 or MAC 2132) (3)
Determinative Bacteriology (MCB 4115) (5)
Immunology (PCB 5235 or equivalent) (3)
Clinical Chemistry (CHS 4300) (3)

Ability to use computers is essential for work in a modern laboratory. Hospitals recommend elective courses in use of computers and in management.

Upon successful completion of this curriculum and acceptance by one of the affiliated hospitals, the student will complete 12 continuous months of training at that hospital. Hospital programs begin in July or early August each year, and some hospitals also have programs beginning in January or February. During this clinical training, the student will continue to be registered as a full-time student of the University and will receive a total of 30 credit hours of work in:

MIS 4031 MIS 4861 MIS 4863 MIS 4865
MIS 4860 MIS 4862 MIS 4864 MIS 4866

These courses, listed under "Interdisciplinary Arts and Sciences," will be taught at the hospital. A "C" or higher must be earned in each course. Students successfully completing this program will be granted a Bachelor of Science degree in Medical Technology.

PHILOSOPHY (PHI)

- Requirements for the Major in Philosophy
  Majors in philosophy must complete at least 30 credit hours made up as follows:
  a. PHH 3062 History of Philosophy: Ancient and Medieval
  PHH 3420 History of Philosophy: Modern
  b. PHI 2100 Introduction to Formal Logic
  or
  PHI 5135 Symbolic Logic
  c. PHI 4600 Contemporary Ethical Theory
  d. At least one of the following:
     PHI 4300 Theory of Knowledge
     PHI 5225 Philosophy of Language
     PHI 4320 Philosophy of Mind
  e. 6 credit hours of 4000 or 5000 level Philosophy courses
  f. 9 credit hours of Philosophy electives

- Requirements for the Minor in Philosophy
  A minor in philosophy consists of a total of at least 18 credit hours which includes the following courses or an approved substitute for one only:
  PHH 3062 History of Philosophy: Ancient and Medieval
  PHH 3420 History of Philosophy: Modern
  PHI 4600 Contemporary Philosophy
  or
  PHI 4440 19th Century Continental Philosophy
  PHI 2100 Introduction to Formal Logic
No credit taken on an "S/U" basis may be applied toward the minor.

Honors Program

The Honors Program in Philosophy allows superior students to pursue philosophical studies at a more advanced level than is customary in undergraduate philosophy programs. Students in the Honors Program will be required to do independent research, to participate in an Honors Seminar, and to write and defend an undergraduate thesis.

Admission Criteria:

1) Students must complete
   PHI 2100 Introduction to Formal Logic
   PHH 3062 History of Philosophy: Ancient and Medieval
   PHH 3420 History of Philosophy: Modern
   with a grade point average of 3.6.

2) Students must have an overall grade point average of 3.0, and their grade point average in Philosophy must be at least 3.5.

3) Students must be nominated for admission into the Philosophy program by a faculty member in Philosophy, and a majority of the faculty who have taught the student must approve the student’s admission into the program.

Program Requirements:

Students must complete the requirements for the Philosophy major in accordance with the following provisions:

a) students must take either PHH 4440 19th Century Continental Philosophy or PHI 4600 Contemporary Philosophy

b) students must take one course from each of the following groups:
   Group 1
   PHI 3404 Scientific Method
   PHI 4320 Philosophy of Mind
   PHI 4300 Theory of Knowledge
   PHI 5225 Philosophy of Language
   PHP 4784 Analytical Philosophy
   Group 2
   PHI 4600 Contemporary Ethical Theory
   PHI 3601 Contemporary Moral Issues
   PHI 3700 Philosophy of Religion
   PHI 4800 Aesthetics
   PHM 3021 Philosophies of Love and Sex
   PHM 3400 Introduction to Philosophy of Law
Degrees in Physics and Engineering Science. A Ph.D. program and the Dual-Master's programs leading to a Bachelor of Arts (B.A.) or a Bachelor of Science (B.S.) degree. The B.A. program is designed for students interested in a more general education in physics. The B.S. program is for students planning to pursue graduate studies in physics, applied science or engineering. The B.S. program allows enough flexibility in electives to enable students to combine a physics major with another major in such areas as mathematics, biology, chemistry, computer science, engineering, business, and teacher education. The B.S. program is for students planning to pursue graduate studies in physics, applied science or engineering. For those students who desire additional capabilities in physics beyond the General Physics sequence, they may pursue a Minor in Physics.

At the graduate level, the Department of Physics offers three Master's degrees, the Master of Science in Physics, the Master of Science in Applied Physics and the Dual-Master Degrees in Physics and Engineering Science. A Ph.D. program in Applied Mathematics or Engineering Science with an emphasis in Applied Physics is conducted in collaboration with the Department of Mathematics and with the College of Engineering.

- Requirements for the Majors in Physics

1. Physics Courses

B.A. PHYSICS (PHY) (34 cr. hrs.)
- PHY 2048: (3) PHY 3322 (3) PHY 4324 (4)
- PHY 2048L: (1) PHY 3323C (4) PHY 4823L (2)
- PHY 2049: (3) PHY 3822L (2) PHY 4910 (1-4)
- PHY 2049L: (1) PHY 4222 (3) PHY 4930 (1)

Physics Electives (6)

B.S. PHYSICS (PHS) (44 cr. hrs.)
- PHY 2048: (3) PHY 3323C (4) PHY 4604 (3)
- PHY 2048L: (1) PHY 3424 (4) PHY 4823L (2)
- PHY 2049: (3) PHY Y 3822L (2) PHY 4910 (1-4)
- PHY 2049L: (1) PHY 4222 (3) PHY 4930 (1)
- PHY 3101 (3) PHY 4324C (4) PHZ 5405: (3)
- PHY 3221 (3) PHY 4523 (3)

2. Supporting Courses in the Natural Sciences

B.A. and B.S. PHYSICS (20 cr. hrs.)
- CHM 2041 (3) CHM 2046L (1) MAC 2313 (4)
- CHM 2045L (1) MAC 2311 (4) MAP 2202 (3)
- CHM 2046 (3) MAC 2312 (4)

3. Liberal Arts Requirements

- General Education Requirements (36 cr. hrs.); Exit Requirements (9 cr. hrs.)
- The student is required to complete the University's Liberal Arts Requirements.

4. Free Electives

- Courses over and above required courses should be taken to complete a 120-hour program.

5. Residency Requirement

- A minimum of 20 credit hours of physics courses (see 1 above) in residency.

6. D and F grades earned in attempting to satisfy major requirements will be used in calculating the major GPA.

- Requirements for the Minor in Physics

- The minor in Physics is open to students with majors in the sciences, engineering, and mathematics. A minor in Physics consists of 19 credit hours, which include, PHY 2048 (3), PHY 2048L (1), PHY 2049 (3), PHY 2049L (1), PHY 3101 (3), PHY 3822L (2), and two electives from the approved Physics courses.

Teacher Education Programs

For information concerning the degree programs for secondary school teachers, see Teacher Education Programs in this college; for junior college teachers, see USF Graduate Catalog.

- Prerequisites (State Mandated Common Prerequisites)

Students wishing to transfer to USF should complete the A.A. degree at the community college. Some courses required for the major may also meet General Education Requirements thereby transferring maximum hours to the university. If students transfer without an A.A. degree and have fewer than 60 semester hours of acceptable credit, the students must meet the university’s entering freshman requirements including ACT or SAT test scores, GPA, and course requirements.

There are no State Mandated Common Prerequisites for this degree program

The transfer student should also be aware of the immunization, foreign language, and continuous enrollment policies of the university.

Students should complete the following prerequisite courses listed below at the lower level prior to entering the

Phyiosophy course, their grade point average in Philosophy must be at least a 3.5 to remain, or be graduated from the Philosophy Honors program.

- Students must complete 35 credit hours in Philosophy, including the 3-hour thesis course and the 3-hour Honors Seminar.

- Group 3

  - PHM 3100 Social Philosophy
  - PHM 4322 Ancient and Medieval Political Philosophy
  - PHM 4331 Modern Political Philosophy
  - PHM 4340 Contemporary Political Philosophy
  - PHP 4788 Philosophy of Marxism

- Group 4

  - PHM 4700 American Philosophy
  - PHP 3786 Existentialism
  - PHP 4000 Plato
  - PHP 4010 Aristotle
  - PHP 4410 Kant
  - PHP 4740 The Rationalists
  - PHP 4745 Empiricists

(c) Students must take an Honors Seminar in their senior year.

(d) Students must write a senior thesis and undergo an oral examination on the thesis before a committee of two faculty members, with the Chair as an ex officio member of every such committee.

(e) Students cannot receive a grade lower than a “B” in any Philosophy course, and their grade point average in Philosophy must be at least a 3.5 to remain, or be graduated from the Philosophy Honors program.

(f) Students must complete 35 credit hours in Philosophy, including the 3-hour thesis course and the 3-hour Honors Seminar.

- There are no State Mandated Common Prerequisites for this degree program.

The transfer student should also be aware of the immunization, foreign language, and continuous enrollment policies of the university.

Students should complete the following prerequisite courses listed below at the lower level prior to entering the University. If students transfer without an A.A. degree and have fewer than 60 semester hours of acceptable credit, the students must meet the university’s entering freshman requirements including ACT or SAT test scores, GPA, and course requirements.

- Mathematics (any courses).
- Foreign Languages (Beginning and Intermediate German, French, or Latin) (1120-1121 level and 2200-2201 level).
- Classics (CLT, CLA for example)

- PHYSICS (PHY/PHS)

  - The Department of Physics offers undergraduate programs leading to a Bachelor of Arts (B.A.) or a Bachelor of Science (B.S.) degree. The B.A. program is designed for students interested in a more general education in physics. The B.S. program is for students planning to pursue graduate studies in physics, applied science or engineering. The B.S. program allows enough flexibility in electives to enable students to combine a physics major with another major in such areas as mathematics, biology, chemistry, computer science, engineering, business, and teacher education. The B.S. program is for students planning to pursue graduate studies in physics, applied science or engineering. For those students who desire additional capabilities in physics beyond the General Physics sequence, they may pursue a Minor in Physics.

  - At the graduate level, the Department of Physics offers three Master's degrees, the Master of Science in Physics, the Master of Science in Applied Physics and the Dual-Master Degrees in Physics and Engineering Science. A Ph.D. program in Applied Mathematics or Engineering Science with an emphasis in Applied Physics is conducted in collaboration with the Department of Mathematics and with the College of Engineering.

  - Requirements for the Majors in Physics

  1. Physics Courses

     - B.A. PHYSICS (PHY) (34 cr. hrs.)
     - PHY 2048: (3) PHY 3322 (3) PHY 4324 (4)
     - PHY 2048L: (1) PHY 3323C (4) PHY 4823L (2)
     - PHY 2049: (3) PHY 3822L (2) PHY 4910 (1-4)
     - PHY 2049L: (1) PHY 4222 (3) PHY 4930 (1)

     Physics Electives (6)

     - B.S. PHYSICS (PHS) (44 cr. hrs.)
     - PHY 2048: (3) PHY 3323C (4) PHY 4604 (3)
     - PHY 2048L: (1) PHY 3424 (4) PHY 4823L (2)
     - PHY 2049: (3) PHY Y 3822L (2) PHY 4910 (1-4)
     - PHY 2049L: (1) PHY 4222 (3) PHY 4930 (1)
     - PHY 3101 (3) PHY 4324C (4) PHZ 5405: (3)
     - PHY 3221 (3) PHY 4523 (3)

   1. The sequence PHZ 2101 (2), PHY 2053 (3), PHY 2053L (1), PHY 2054 (3), and PHY 2054L (1) may be substituted for the sequence indicated.

   2. Substitutions permitted subject to approval of undergraduate advisor.

   3. Liberal Arts Requirements

      - General Education Requirements (36 cr. hrs.); Exit Requirements (9 cr. hrs.)
      - The student is required to complete the University's Liberal Arts Requirements.

   4. Free Electives

      - Courses over and above required courses should be taken to complete a 120-hour program.

   5. Residency Requirement

      - A minimum of 20 credit hours of physics courses (see 1 above) in residency.

   6. D and F grades earned in attempting to satisfy major requirements will be used in calculating the major GPA.

   - Requirements for the Minor in Physics

      - The minor in Physics is open to students with majors in the sciences, engineering, and mathematics. A minor in Physics consists of 19 credit hours, which include, PHY 2048 (3), PHY 2048L (1), PHY 2049 (3), PHY 2049L (1), PHY 3101 (3), PHY 3822L (2), and two electives from the approved Physics courses.

Teacher Education Programs

For information concerning the degree programs for secondary school teachers, see Teacher Education Programs in this college; for junior college teachers, see USF Graduate Catalog.

- Prerequisites (State Mandated Common Prerequisites)

Students wishing to transfer to USF should complete the A.A. degree at the community college. Some courses required for the major may also meet General Education Requirements thereby transferring maximum hours to the university. If students transfer without an A.A. degree and have fewer than 60 semester hours of acceptable credit, the students must meet the university’s entering freshman requirements including ACT or SAT test scores, GPA, and course requirements.

The transfer student should also be aware of the immunization, foreign language, and continuous enrollment policies of the university.

Students should complete the following prerequisite courses listed below at the lower level prior to entering the
University. If these courses are not taken at the community college, they must be completed before the degree is granted. Unless stated otherwise, a grade of "C" is the minimum acceptable grade.

CHM 1045/1045L General Chemistry I (with lab) or CHM 1040 & 1041 or CHM 1045C or CHM 1045E
CHM 1049/1049L General Chemistry II (with lab) or CHM 1046C or CHM 1046E

Students must complete the prerequisite courses listed below prior to admission to the upper-division major. Students who do not complete these prerequisites can be admitted to the University, but not to the upper-division major. Unless stated otherwise, a grade of "C" is the minimum acceptable grade.

MAC 2311 Calculus I
MAC 2312 Calculus II
MAC 2313 Calculus III
PHY 2048/2048L General Physics I with Lab or PHY 2048C
PHY 2049/2049L General Physics II with Lab or PHY 2049C

**PSYCHOLOGY (PSY)**

Psychology involves the scientific study of behavior and mental processes. Because of this focus, psychology is relevant to many other areas of study both inside and outside of the social and behavioral sciences. The undergraduate program in Psychology offers the student a well-rounded liberal arts education. In addition, the program provides excellent training for qualified students who wish to pursue graduate work in such disciplines as Clinical, Experimental or Industrial Psychology, Education, Gerontology, Counseling, Management, Medicine, Law, and other human service programs. The undergraduate major emphasizes the breadth of psychology while allowing the student some electives to pursue in depth a particular aspect of the field. Interested undergraduate majors may apply for admission to a concentration in Applied Behavioral Analysis. The graduate faculty of the Psychology Department are divided into three broad program areas: Clinical, Experimental, and Industrial/Organizational. Each of these program areas offers Ph.D.-level training as well as instruction at the undergraduate level.

**Requirements for the Major in Psychology**

Majors must complete at least 34 semester hours in the field. A minimum grade of "C" or better must be attained in each course in the major. All majors must complete:

1. **2000/3000 Level Requirement (6 semester hours)**
   Successful completion of: PSY 3044 (3 semester hours) and one of the following:
   - INP 2101
   - PSY 2012
   - PSY 3022
   - SOP 3742
2. **Methods Course Requirement (7 semester hours)**
   Successful completion of:
   - PSY 3213 and one of the following:
   - OLP 4433
   - PSY 4205
   or another methods course approved by the undergraduate advisor in Psychology.
3. **4000 Level Requirement (21 semester hours)**
   Successful completion of 7 additional Psychology courses numbered at the 4000 level selected as follows: At least two courses from each of the two groups below:
   - **Group I**
     - EXP 4204C
     - EXP 4404
     - PSB 4013C
   - **Group II**
     - EXP 4304
     - EXP 4523C
   - **Group III**
     - CLP 4143
     - INP 4004
     - SOP 4004
   - **Group IV**
     - DEP 4009
     - PPE 4004
   - and 3 additional courses numbered at the 4000 level.

**Note:** No more than a total of 3 hours of the following courses may count toward the major:

- PSY 4913 Directed Study
- PSY 4970 Honors Thesis
- PSY 4932 may not count toward the major.

Statistics and Biological Science are required. Otherwise, students majoring in psychology are encouraged to complete a varied undergraduate program.

A prerequisite for all 4000-level courses is a grade of "C" or better in both PSY 3044 and PSY 3213. For students minoring in Psychology, a grade of "C" or better in any college-level statistics course will substitute for the PSY 3213 requirement.

For students majoring in Interdisciplinary Social Sciences any college-level statistics course with a grade of "C" or better may serve as prerequisite for 4000 level courses in Psychology but does not substitute for the PSY 3213 requirement.

**Requirements for the Minor in Psychology**

A minor in Psychology consists of a minimum of 15 credit hours, comprising PSY 2012, PSY 3044, and any three 4000-level psychology courses except PSY 4913. A GPA of 2.0 or better in the minor is required for certification. The purpose of the minor is to help students majoring in other disciplines to obtain an appropriate psychology background that will complement their work in their major. See the Psychology Department Undergraduate Advisor for suggested minor programs for students majoring in various fields.

**Concentration in Applied Behavior Analysis**

Undergraduate majors working toward the B.A. in psychology may complete a structured sequence of coursework and practicum in Applied Behavior Analysis. Students are admitted to the program in the junior or senior year, after completing EXP 4404 and CLP 4414 with a grade of B or better. Admission requirements further include a minimum overall USF GPA of 3.0 or better, GPA of 3.2 for Psychology coursework, completion of at least 75 hours, and two letters of recommendation. Admissions are typically made in the fall of each academic year. Successful completion of the concentration prepares students for the Florida Certification Examination for Associate Behavior Analysis, for employment opportunities in a variety of settings, and for advanced study in Applied Behavior Analysis. Detailed information regarding the program and the admission process may be obtained from the undergraduate advisor or the program secretary.

**Psychology Honors Program**

The purpose of the Honors Program is to provide a select group of undergraduate Psychology majors an opportunity to undertake an intensive individualized research experience. The culmination of the Honors Program is the completion and defense of an honors thesis. Application for the program will take place during the second semester of the student's junior year or, typically, prior to completion of 90 semester credits. Admission to the program is competitive and based on the student's overall academic record, performance in psychology courses, and a letter of recommendation from a member of the Psychology Department faculty. Successful completion of the program requires a GPA of 3.5 in major coursework, an overall GPA of 3.25 at USF, and, typically, completion of 43 hours in Psychology including PSY 4932 (6) and PSY 4970 (6). See the Psychology Department Undergraduate Advisor for details of the program and an application form.

**Prerequisites (State Mandated Common Prerequisites)**

Students wishing to transfer to USF should complete the A.A. degree at the community college. Some courses required for the major may also meet General Education Requirements thereby transferring maximum hours to the university. If students transfer without an A.A. degree and have fewer than 60 semester hours of acceptable credit, the students must meet the university’s entering freshman requirements including ACT or SAT test scores, GPA, and course requirements.

The transfer student should also be aware of the immunization, foreign language, and continuous enrollment policies of the university.
Students should complete the following prerequisite courses listed below at the lower level prior to entering the University. If these courses are not taken at the community college, they must be completed before the degree is granted. Unless stated otherwise, a grade of “C” is the minimum acceptable grade.

- **PSYX012 Introduction to Psychology** and any other lower level Psychology course
- **STATXXX Any level Statistics course**
- **BSCXXX Any level Biology course** or any other lower level Zoology course

**REHABILITATION AND MENTAL HEALTH COUNSELING (REF)**

A five-year master's program is available to undergraduates where an M.A. degree in Rehabilitation and Mental Health Counseling and a bachelor's degree in another major (if desired) can be earned in a total program of 150 semester hours. Students admitted through the five-year program (REF) must have completed 90 semester hours of work, including required courses in the undergraduate major, and have satisfied General Distribution, CLAST, and Rule 6A-10.30 (Gordon Rule) requirements. Minimum admission requirements include a total Verbal-Quantitative score of at least 150 and a grade point average of at least 3.0 over the last 60 semester hours. The GRE must be taken by all applicants whether or not they have a 3.0 grade-point average. A detailed description of the M.A. program in Rehabilitation and Mental Health Counseling may be found in the Graduate Catalog and on the internet at [http://www.cas.usf.edu/rehab_counseling/index.html](http://www.cas.usf.edu/rehab_counseling/index.html).

Undergraduates interested in the five-year program (REF) should contact the department during their sophomore year. They should concentrate on taking required courses in their undergraduate major, and should generally defer taking elective courses until admitted to the five-year program. Applications for the five-year program are available from the Department. GRE scores must be reported to USF before any application can be processed, and three letters of recommendation are required.

The mission of Rehabilitation and Mental Health Counseling is to help individuals with physical, mental, and psychiatric disabilities return to full, rewarding, and productive lives. Rehabilitation Counselors work in a wide variety of settings, including public and private rehabilitation programs and facilities, mental health treatment settings, and substance abuse treatment settings. Some establish their own private rehabilitation or mental health counseling practices. Rehabilitation and Mental Health Counseling have roots in both the national rehabilitation movement and professional counseling movement. Training, which includes experiential learning, emphasizes psychological, social, medical, and vocational aspects of disability; and also the development and refinement of personal adjustment and mental health counseling skills.

The graduate program in Rehabilitation and Mental Health Counseling is fully accredited by the Council on Rehabilitation Education (CORE), the national accrediting body for rehabilitation counselor training programs. Upon completion of the program, graduates are eligible to sit for the national certification examination of the Commission on Rehabilitation Counselor Certification. After passing this examination, the graduate is registered with the Commission as a Certified Rehabilitation Counselor (CRC). Within the 60 hour M.A. program, graduates are also able to meet Florida's educational standards for licensure as a Clinical Mental Health Counselor.

**RELIGIOUS STUDIES (REL)**

In Religious Studies, students are exposed to a cross-cultural and multi-disciplinary study of the way in which both individuals and civilizations are deeply influenced by human religious experience. The goal is to enable the educated person to understand better the various ways in which religious values and institutions shape human behavior through a comparative study of religions and cultures. Such an education is invaluable for careers as diverse as journalism, law, medicine, business, as well as careers more directly related to the practice of religion. Majors in Religious Studies will also find courses designed to give them the methodological, theoretical, and linguistic skills needed to go on to advanced graduate study in the field.

- **Requirements for the Major in Religious Studies**
  A total of 36 credit hours chosen from Religious Studies courses. Transfer students may not apply more than 12 hours taken elsewhere toward the major at the University of South Florida. Only letter grades will be counted toward the minimum of 24 credit hours taken at the University of South Florida for transfer students or 36 (for non-transfer students) credit hours necessary to complete the 36 credit hours required for the degree. Students taking Religious Studies as a second major need to complete only 30 credit hours. To do so they must make a written request to the Undergraduate Director at the time they declare their major.

  **All majors must take**
  a. REL 3003 Introduction to Religion (3); and
  b. REL 4949 The Development of Religious Studies (3); and
  c. REL 4931 Seminar in Religion (3)
  d. An additional 27 credit hours chosen from Religious Studies courses. Students are expected to study at least two different religious traditions.

  All transfer student must take a minimum of 24 hours in Religious Studies courses at the University of South Florida. It is the prerogative of the Department of Religious Studies to determine whether courses taken at other universities may be applied toward the major at the University of South Florida. This will be decided as soon as the student becomes a major in the Department of Religious Studies at the University of South Florida.

  The department’s course offerings are sufficiently varied that a student should expect to enroll in its scheduled classes. No more than three directed studies courses may be applied toward the major. Any student who wishes to take any type of directed study, including REL 3900, must have the (written) approval of his/her instructor.

- **Requirements for the Minor in Religious Studies**
  A total of 18 credit hours chosen from Religious Studies courses. Transfer students may not apply more than 6 credit hours taken elsewhere toward the minor at USF. Only letter grades will be counted for transfer. Requests for transfer of credit must be made to the Undergraduate Director in writing when declaring a minor.

  **All minors must take**
  a. REL 3003 Introduction to Religion (3); and
  b. REL 4949 The Development of Religious Studies (3); and
  c. REL 4931 Seminar in Religion (3) - various topics
  d. An additional 9 credit hours chosen from Religious Studies courses. Students are expected to study at least two different religious traditions.

  It is the prerogative of the Department of Religious Studies to determine whether courses taken at other universities may be applied toward the minor at USF. This will be decided as soon as the student declares a minor in the Department of Religious Studies at USF.

**Prerequisites (State Mandated Common Prerequisites)**

Students wishing to transfer to USF should complete the
The University of South Florida offers a program leading to a Bachelor of Social Work (B.S.W.) degree in the School of Social Work, College of Arts and Sciences. This program has been developed in accordance with the guidelines set forth by the Council on Social Work Education, the national accrediting body for social work education programs, and in accordance with the recommendations of the National Association of Social Workers. The B.S.W. program is fully accredited by the Council on Social Work Education. The primary objective of the B.S.W. program is the preparation of the graduate for beginning level professional practice as a social work generalist.

The secondary objectives of the B.S.W. program are:

1. to provide for the social work human resources needs of the University service district (the central Florida west coast area), the State of Florida, and the Southeast Region;
2. to prepare graduates for additional professional training at the graduate level in social work or in related human service professions;
3. to provide an exposure to social work as a profession and to contemporary issues in the social welfare field.

In preparing the B.S.W. graduate for beginning professional practice, the curriculum provides the student with an opportunity to develop a knowledge base and skill base as a "generalist" practitioner. The student will develop an understanding of various interventional methods and skills in their application to a variety of client systems. For example, interventional methods may take the form of individual and group counseling, resource development, consultation, teaching, advocacy, etc. Client systems may be individuals, families, groups, organizations, or communities. The student will develop an understanding of the dynamics of human behavior in individual, group and organizational contexts and the influences of the sociocultural environment upon those behaviors. The student will learn about the development of social welfare systems and institutions and the social, economic, and political processes affecting policy development and program implementation. The student will develop an understanding of the utilization of basic social research skills particularly related to the processes of problem-solving, planning, and evaluation.

The student will also become aware of the value base of the profession and engage in a self-examination process as it relates to the development and reflection of ethical and effective professional practice. The B.S.W. program, as any professional program, places great emphasis on the development of a professionally responsible graduate in terms of one's obligations to the client system served, the profession itself, the organization in which one works, and to the general public which ultimately provides any profession with legitimacy.

Enrollment in the B.S.W. program is limited. Unlike many academic programs where the student may declare a major, the B.S.W. program is a limited access program. Students may apply for admission to the School for the B.S.W. program after having satisfied the admission criteria described below.

However, the completion of the prerequisites does not guarantee the student's admission to the program. Limited state funding places constraints on the size of the social work faculty and in order to maintain a high quality of instruction, it is necessary to achieve an appropriate faculty-student ratio. This means that it may be necessary to deny admission to the B.S.W. program solely on the basis of no available space. Any student applying for admission to the program should be aware of this possibility.

Additionally, any student who does not maintain a GPA of at least 2.75 in social work courses while enrolled in the B.S.W. program or who clearly does not exhibit responsible professional behavior, may be subject to dismissal from the program. A social work major receiving a grade of less than "C" in a core course will be required to repeat the course. Furthermore, no student will be allowed to enter field placement with a "D" grade in any SOW core courses, even if the student's GPA is 2.75 or above with the inclusion of the "D" grade.

Admission to the B.S.W. program is a three-stage process, i.e., common prerequisites, foundation, and core curriculum. Any student who holds a minimum of Sophomore standing and has completed common prerequisite work in political science, biology, economics, psychology and sociology (see specific requirements below) may declare a pre-social work major. This is done by filing a declaration of major form with the College of Arts and Sciences, Records and Advising Office. All pre-majors will be assigned to an advisor within the School who will assist the student in selecting courses. Many students will have already taken most of the common prerequisite courses as part of general distribution at USF or in their course of study at a community college. After completion, a student will be ready for foundation courses in the pre-social work major, a final step in applying for admission to the B.S.W. program as a full major. It is necessary to be admitted as a major before taking core social work courses.

Admission requirements for the social work major are as follows:

1. A student must have completed a minimum of one semester as a pre-social work major.
2. A student must have completed required common prerequisites and foundation courses (see listing).
3. A student must complete an application for admission and file it with the School of Social Work before the beginning of the semester in which admission is sought; dates will be posted in the Social Work office.
4. A student may be asked to complete an admission interview with a favorable action from the Undergraduate Committee.
5. A student must achieve a grade of "B" or better in SOW 3302, Introduction to Social Work, and SOW 3203, The American Social Welfare System, to be considered for admission.
6. A student must have successfully completed CLAST. CLAST may be repeated and the applicant may reapply to the program after successful completion of CLAST. A student must achieve a GPA of 2.75 in all Social Work courses to enroll in field placement and subsequently graduate with the B.S.W. degree.

Common Prerequisite Courses (P)

A student must successfully complete, by earning a "C" or better:

One course in each of the following cognate areas or equivalency:

- **Human Biology:** Food: Personal and Global Perspectives
- **Sex and Today's World:** Principles of Biology for Non-majors
- **Human Anatomy & Physiology:** Human Sexual Behavior
- **American National Government:** State and Local Government and Politics
- **Florida Politics and Government:** Introduction to Contemporary Psychology
- **Contemporary Problems in Psychology:** 3.0
Transfer without an A.A. degree and have fewer than 60 transferring maximum hours to the university. If students may also meet General Education Requirements thereby community college. Some courses required for the major transfer to USF should complete the A.A. degree at the community college.

**Foundation Courses (P*) for Pre-Social Work Majors**

1. A student must successfully complete by earning a "C" or better one of the following cross cultural courses or equivalency.
   - Introduction to the Black Experience
   - Social Institutions and the African-American Community
   - Black Women in America
   - Culture and Society in Africa
   - Racism in American Society
   - Blacks in the American Political Process

**Anthropology:**
- Introduction to Anthropology
- The Anthropological Perspective

**Sociology:**
- Racial and Ethnic Relations

**Women's Studies:**
- Introduction to Women's Studies
- Psychology of Women
- Women and Politics
- Issues in Feminism
- American Women in Contemporary Society I
- American Women in Contemporary Society II
- Literature by American Women of Color
- The Image of Women in Literature (also offered in English)
- Third World Women Writers (also offered in English)

2. Both of the following Social Work courses, earning a "B" or better:
   - American Social Welfare System
   - Introduction to Social Work

**Requirements for the Major in Social Work (Core Courses)**

1. Human Behavior and Social Environment Courses
   - SOW 3101 (4)  SOW 3102 (4)

2. Social Welfare: Policy & Program Course
   - SOW 4233 (4)

3. Social Research Course
   - SOW 3401 (4)

4. Social Work Practice Courses
   - SOW 4341 (5)  SOW 4343 (5)

5. Directed Field Experience
   - SOW 4510 (3)  SOW 4510L (6)

6. Multi-cultural America
   - SOW 4522 (3)

**Summary:**
- Core Courses 29 hours
- Field Experience 9 hours
- TOTAL 38 hours

**Prerequisites (State Mandated Common Prerequisites)**

This is a limited access program. Students wishing to transfer to USF should complete the A.A. degree at the community college. Some courses required for the major may also meet General Education Requirements thereby transferring maximum hours to the university. If students transfer without an A.A. degree and have fewer than 60 semester hours of acceptable credit, the students must meet the university’s entering freshman requirements including ACT or SAT test scores, GPA, and course requirements.

The transfer student should also be aware of the immunization, foreign language, and continuous enrollment policies of the university.

If possible, students enrolled in community colleges should take their college equivalents of common prerequisite courses (P) and cross-cultural foundation courses (P*) before entering USF. All courses must be passed with a “C” or better.

**SOW 3302, Introduction to Social Work and SOW 3203, American Social Welfare, must be taken at USF or another accredited institution and must be completed, earning a grade of “B” or better.**

**Sociology (SOC)**

Sociology is the study of social life and the social causes and consequences of human behavior. Sociologists investigate the structure of groups, organizations, and societies. Because all human behavior is social, the subject matter of sociology ranges from intimate families to hostile mobs; from crime to religion; from the divisions of race, gender, and social class to the shared beliefs of a common culture; from the sociology of work to the sociology of emotions.

The Sociology major is designed to provide students with a broad liberal arts education and a greater understanding and insight into the social systems and processes that bear upon everyday lives. Opportunities for students with Bachelor’s degrees in Sociology are quite varied. Some go on to work for human service agencies; others work in personnel, criminal justice, and urban planning; others enter graduate programs in sociology, education, law, medicine, or social work. Toward these ends, all students are encouraged to become skilled in the use of computers and libraries.

**Requirements for the Major in Sociology**

The major consists of a minimum of 36 credit hours of Sociology coursework plus ISS STA 2122: Social Science Statistics or its equivalent. All university-wide regulations regarding transfer credits and credits needed for graduation apply, at least 27 of the 36 hours of coursework in Sociology must be USF credits. Only courses in which a grade of “C” or better is attained will count toward the minimum hours although lower grades are included in calculating the major GPA.

The minimum of 36 credit hours in Sociology must include the following four core courses (12 hours):

- SYG2000 Introduction to Sociology (May be replaced with an upper level sociology elective if a total of 12 or more hours of sociology coursework is completed before declaring a Sociology major)
- SYA 3010 Classical Theory
- SYA 3300 Research Methods (Prerequisite: STA 2122 Social Science Statistics or its equivalent)
- SYA 4936 Senior Seminar (Students earning a grade less than “C” in this course must take an additional course in Sociology. In that event, the minimum number of Sociology credits is 39)

The remaining 24 hours of sociology coursework may be comprised of any of the courses offered by the Sociology department with the exception of SYG 2412 Marriage. This course counts toward the total number of hours needed to graduate but it does not count toward the minimum number of sociology hours needed for the major. No more than three hours of SYA4910 individual Research may count toward the 36 hour minimum.

Students are encouraged to make an appointment to talk with the Sociology Department Undergraduate Advisor when they have questions about major requirements or about which electives offered each semester would best meet their educational and career goals.
• Requirements for the Minor in Sociology

A minor in Sociology consists of a minimum of 18 credit hours in Sociology, at least 12 of which must be USF credits. Minors must take SYG 2000 Introduction to Sociology and SYA 3010 Classical Theory. No more than three hours of SYA 4910 Individual Research, may count toward the 18 hour minimum; SYG 2412 Marriage does not count toward the total number of minimum hours for the minor. Only courses in which a grade of "C" or better is attained will count toward the minimum hours.

While students do not declare a Sociology minor until application for graduation, they are encouraged to make an appointment with the Sociology Department Undergraduate Advisor if they wish to discuss which Sociology electives offered each semester would best meet their educational and career goals.

Undergraduate Honors Program in Sociology

The purpose of the Honors Program in Sociology is to provide exceptional undergraduates with advanced, individualized training in research and writing, as well as more direct contact with faculty mentors. Students in the Honors Program can expect more intensive work and greater challenges than sociology students in the senior year ordinarily face; yet, students are not admitted to the program without the confidence of faculty in the student’s abilities to complete the Program. The rewards upon successful completion of the program include: Students will receive advanced training in research and writing, all experiences beyond those normally given to sociology majors; Assuming the student is in good standing at the time of application to graduate school, a letter from the Honors Program director outlining the Program’s requirements and special features will be sent to each graduate program to which s/he applies; Upon successful completion of the Honors Program requirements, the student’s transcript will state that the student graduated with Honors in Sociology.

I. Requirements for Admission

A) Completion of the following courses by the end of the Semester II of the junior year with a Grade point Average of at least 3.5:
   SYG 2000 Introduction to Sociology
   SYA 3010 Classical Theory
   SYA 3300 Research Methods

B) An overall Grade Point Average of 3.2 or higher.

C) Completion of at least 72 semester hours by the start of the program in Semester I.

D) At least one course in the substantive area of the student’s preliminary research interests, by the time of or during Semester I of the program. If during Semester I, the student must have documentation that the course will be offered at the 3000, 4000, or 5000 level, and that s/he will be able to enroll in the class. If at all possible, this course should be in Sociology, although, in some instances, a course outside the department may be approved by the director.

E) Tentative agreement by a faculty member to serve as chair of the thesis committee. This faculty member should indicate her/his willingness in a letter of recommendation to the director of the Honors Program.

Successful completion of the Honors program requires completion of the Sociology program with a GPA of 3.5 or better, completion of Honors Seminar and Honors Colloquium, and completion of Honors Thesis. See Sociology Undergraduate Advisor for more information.

Prerequisites (State Mandated Common Prerequisites)

Students wishing to transfer to USF should complete the A.A. degree at the community college. Some courses required for the major may also meet General Education Requirements thereby transferring maximum hours to the university. If students transfer without an A.A. degree and have fewer than 60 semester hours of acceptable credit, the students must meet the university’s entering freshman requirements including ACT or SAT test scores, GPA, and course requirements.

The transfer student should also be aware of the immunization, foreign language, and continuous enrollment policies of the university.

Students should complete two lower level introductory courses in Sociology prior to entering the University. If these courses are not taken at the community college, they must be completed before the degree is granted. A grade of "C" is the minimum acceptable grade. Students are encouraged to take the following prerequisites, or major, support, or elective courses, if available, during the program of study at the community college, and when feasible in General Education/Gordon Rule courses.

- STA 2122 Social Science Statistics 3
- SYG 2000 Introduction to Sociology 3
- WST 2010 Introduction to Women's Studies 3

WOMEN'S STUDIES (WST)

• Requirements for the Major in Women's Studies

The major in Women's Studies provides a well-rounded Liberal Arts education based on the best and most current scholarship on women in many disciplines. Its subject is not only the evolution of historical attitudes, ideologies, and practices concerning women but also an analysis of the current status of different classes, races and groups of women.

Women's Studies offers excellent undergraduate preparation as well for (1) those who wish to apply to law school or to graduate study in a variety of fields, e.g., Urban or Medical Anthropology, Counselor Education, Criminal Justice, Gerontology, History, Rehabilitation Counseling, Social Work, Women’s Studies; (2) those who want to focus on women in specific disciplines or professions; and (3) those whose training would benefit from a close scrutiny of the major issues facing women today.

 Majors must complete 36 hours distributed as follows: Required Core Courses (6 hours)

- WST 3011
- WST 4935

and at least 1 course from each of the following 6 areas of concentration (18 hours) and 12 hours of electives

1. MULTICULTURAL ISSUES
- WST 3275
- AMH 3561

2. HISTORY
- WST 4335
- AMH 3562

3. HUMANITIES
- WST 4320
- WST 2380

4. SCIENCES
- WST 4310
- WST 4303

5. THEORY/PHILOSOPHY
- WST 4342
- PHI 4693

6. PUBLIC POLICY
- WST 4342
- PHI 4632

The following courses, not included within the six areas of concentration, may be used to complete elective hours:

- WST 3010
- WST 3350
- WST 4910

Students electing to major in Women’s Studies should consult the Undergraduate Advisor for timely scheduling of classes.
Requirements for the Minor in Women's Studies
A student wishing to minor in Women's Studies will be required to take six courses:
- WST 3010 or WST 3011
- Plus 5 electives chosen from the 6 areas of concentration with no more than 2 courses from any one area and with at least 2 courses at the 4000 level and above.

Students who minor in Women's Studies must be certified by the Undergraduate Advisor.

Minor in "WOMEN OF COLOR"
Women's Studies offers a specific concentration in the area of Women of Color whose focus will be to examine the relationship between women of color and institutions of power. For those interested in the difficult task of creating a harmonious multi-ethnic world, this course of study should be personally and socially rewarding as well as academically challenging.

The concentration prepares students for graduate work and/or professional careers in traditional and non-traditional areas such as health and education, international relations, the creative arts, law, medicine, social work, government and public policy, the social sciences, and community organization.

The requirements for the minor are 15 hours which are to be selected from the following upper-level courses:
- AFA 4335
- WST 4260
- WST 4930
- ANT 4302
- WST 4262
- WST 5266
- WST 3275
- WST 4263

Prerequisites (State Mandated Common Prerequisites)
Students wishing to transfer to USF should complete the A.A. degree at the community college. Some courses required for the major may also meet General Education Requirements thereby transferring maximum hours to the university. If students transfer without an A.A. degree and have fewer than 60 semester hours of acceptable credit, the students must meet the university's entering freshman requirements including ACT or SAT test scores, GPA, and course requirements.

There are no State Mandated Common Prerequisites for this degree program.

The transfer student should also be aware of the immunization, foreign language, and continuous enrollment policies of the university.

Students are encouraged to take the following prerequisites, major, support, or elective courses, if available during the program of study at the community college, and when feasible in General Education/Gordon Rule courses. Unless otherwise stated, a grade of "C" is the minimum acceptable grade.

Social Sciences
- Liberal Arts
- WST 3010 Intro to Women's Studies
- Courses to improve reading and writing skills

STUDENT ORGANIZATIONS IN THE COLLEGE OF ARTS AND SCIENCES
Alpha Epsilon Delta (AED) - National Premedical Honor Society
- Open to all USF students with an interest in health professions. To be inducted into the national honorary, students must have 3.0 overall GPA and science GPA with a minimum of 3 semesters of college work completed, including one semester at USF. Students do not need to be in the national honorary in order to participate in the chapter at USF. For further information please go to Science Advising Center, CHE 306.

Alpa Phi Sigma
- To recognize and promote high scholastic achievement among students in the Criminal Justice major by supporting service projects, tutoring services, and other goal directed activities. For further information please call 813-974-6217.

American Chemical Society Student Affiliate
- To enhance the students knowledge of chemistry and chemistry related fields. For further information please contact Dr. Stanko, 813-974-2674, CHE 306.

American Criminal Justice Association
- To offer students an organization that exposes them to career opportunities in fields related to criminology. We also provide interaction between students and professionals in the field of criminal justice. For further information please call 813-974-6217.

American Medical Student Association (AMSA)
- Open to all Pre-Medical students. AMSA sponsors student-run projects carried out at the local level that allows future physicians to work in their communities as teachers and advocates of health promotion and disease prevention. For further information please go to Science Advising Center, CHE 306.

Anthropology Club
- To promote and encourage an interest in Anthropology among individuals within the USF community, to provide a forum for the exchange of anthropological ideas between faculty and students, and foster an informal and creative atmosphere for interaction. For further information please call the Department Office at 813-974-0783.

Arts and Sciences College Council
- To represent the students of the College of Arts & Sciences in expressing their opinions, to help them participate in determining college policy, to provide services that may help in furthering their interests and education in the Arts and Sciences. For further information please go to SOC 102 or call 813-974-6916.

Arts and Sciences Honor Society
- To recognize high academic achievement by students in the College of Arts and Sciences. Membership is by invitation. Inductions are held each fall and spring. For further information please go to SOC 102 call 813-974-6916.

Association of Minority Communicators
- To inform and help facilitate minority students interested in Communication about the profession and help them gain practical experience.

Blacks Organized for Social Science
- This is a service club for students majoring or interested in the social science field who wish to enhance studies and broaden leadership skills. For further information please go to SOC 102.

Colloquia in Literature and Linguistics
- Provides a stimulating environment in which graduate students in French, Spanish, and Linguistics can share and expand their scholarly endeavors. Sponsors guest lectures. For further information please go to CPR 419.

Communication Council
- To encourage and promote extracurricular learning as well as social interaction among communication majors and minors. For further information please go to CIS 3058.

French Club
- To promote the interest of the French language. Francophone culture and civilization through programs scheduled at club meetings and through social events of the club. For further information please go to CPR 419.

Gamma Theta Upsilon
- To foster academic excellence in the Geographic disciplines.

Geography Club
- To foster understanding of and stimulate interest in the discipline of Geography and its subfields. For further information please go to SOC 305.

Geology Club
- The Geology Club at USF involves its members along with the department in many activities such as trips, annual T-shirt sales and extracurricular academic participation. These events include hosting weekly lecture series by
professional geologists and providing opportunities for members to teach geology to local elementary schools. For further information please contact Dr. Jeff Ryan, SCA 507; Undergraduate Advising Office, CHE 306; or Geology Web Page @ www.cas.usf.edu/geology/

German Club-To promote the interest of German language, culture, and civilization through programs scheduled at club meetings and through social events of the club. For further information please go to CPR 419.

HOSA - Health Occupations Students of America (HOSA) is a national organization which supplements and compliments the health education curriculum. HOSA develops the whole person, not just job-specific skills. HOSA's purpose is to foster leadership skills, communication skills and other occupational competencies and social skills that will lead to a successful career in the health field. For further information please go to Science Advising Center, CHE 306.

Humanities and American Studies Society - This organization's stated purpose according to its Constitution, is "to inspire a greater appreciation of our past and present through the study and enjoyment of various art forms." Activities range from gallery strolls to lectures, film series, and campus theatre performances.

International Studies Organization-To promote interaction between students and faculty. To enlighten the student populace of USF of the values of International studies and to foster gender relations among international studies majors. For further information please go to SOC 373.

Italian Club - The purpose of the Circolo Culturale Italiano is to provide educational opportunities and experiences in the American Life to its members and help them to improve their knowledge of the Italian language and culture. It also sponsors lectures, social events and grants scholarships to deserving students of Italian. For further information please go to CPR 419.

Legal Brief -To publish an annual law journal devoted to the exploration of legal issues through articles, interviews and practice experiences. For further information please go to SOC 352.

Minority Preprofessional and Science Society - The objectives of the Society are to:
(1) promote minority student interest in careers in the natural sciences and the health professions;
(2) provide a support network to enable students to be academically successful.

The Society meets twice monthly on Wednesday afternoons. Membership is open to all students in the College of Arts and Sciences. For further information call the Health Professions Advising office, 974-2674/3874.

Pre-Dental Society - The Pre-Dental Society is open to all students with an interest in Dentistry. Through the Society students have an opportunity to not only get to know other Pre-Dental students, but to meet and hear presentations from dental school admissions officers and practicing dentists. The Society also has organized an extensive mentor program through which students can arrange to observe dentists from each of the specialties as they work in their offices. For further information please go to Science Advising Center, CHE 306.

Preoptometry Society - This new society will provide students an opportunity to learn more about the profession of optometry and to meet other students interested in the profession. Any interested student is invited to join. For further information please go to Science Advising Center, CHE 306.

Pre-veterinary Society - USF Pre-veterinary Society provides fellowship and exchange among students interested in veterinary medicine, animal science and/or research. Membership is open to students from USF and other local colleges who wish to participate in a variety of activities which will enhance their knowledge in animal science. Activities have included tours at EPCOT - the Land of the Seas, Sea World, Lowry Park Zoo, an ostrich farm, and University of Florida College of Veterinary Medicine. Students meet a variety of specialists in the area. For further information please go to Science Advising Center, CHE 306.

Sigma Gamma Epsilon - To recognize and promote academic and professional excellence in the Earth Sciences.

Student Broadcasting Association-To give students with an interest in television/radio journalism on-hands experience and the opportunity to produce a news program for public access television. For further information please go to CIS 3005.

Student Chapter of the Mathematical Association of America - A club for students who enjoy doing, discussing and learning mathematics. For further information please goto PHY 342.

Student Society for Technical Communication-SSTC offers students scholarships, publication competitions, internship opportunities, resume and computer workshops and networking socials with local professionals who are established in the field. For further information please go to CTR 2419.

Women's Studies Student Association-To promote interest in women's issues and provide an informative and social atmosphere for all interested Women's Studies affiliates.

ARTS AND SCIENCES FACULTY

Africana Studies

Director: N. C. James; Associate Professors: K. R. Glover, N. C. James, D. G. Plant, T. W. Purcell; Assistant Professors: C. R. Rodriguez, D. Turner; Other Faculty: D. Blfell, C. Heglar, R. Kaplan, F. U. Ohaegbulam, L. W. Morehouse, P. J. Collins, K.
Anthropology

Bachelor of Independent Studies
Director: F. Steier; Coordinator: F. Eilers; Area Coordinators: W. Heim (BIS Humanities), R. Wheeler (BIS Social & Behavioral Sciences).

Biology

Chemistry
Chairperson (Interim): R. L. Potter; Emeritus Professors: J. E. Fabry, Emeritus (Emeritus); J. E. Fabry, Emeritus (Emeritus); R. R. Jones.

Communication
Chairperson: E. Eisenberg; Professors: A. P. Bochner, K. N. Cisna, E. M. Eisenberg, C. S. Ellis, L. S. Pettigrew, R. J. Schneider, M. L. Vanderford; Associate Professors: E. E. Bell, B. F. Downs, C. J. Jablonski, N. C. James, M. Neumann, A. D. Payne, F. Steier; Assistant Professors: J. Jorgenson, G. Rodman; Courtesy Faculty: M. Myerson.

Communication Sciences and Disorders

Community Experiential Learning
Coordinator: R. R. Jones.

Criminology

Economics

Environmental Science and Policy
Director: R. Khator; Assistant Director: I. Bartsch

Geography

Geology

Gerontology

History

Humanities and American Studies
Chairperson: S. L. Gaggi; Professors: C. B. Cooper, S. L.
Rehabilitation and Mental Health Counseling
Chairperson: W. G. Emener; Distinguished Research Professor: W. G. Emener; Professors: J. D. Rasch; Associate Professors: S. Kelley, T. J. Wright; Assistant Professors: C. Dixon; Clinical Instructor: J. Ferrandino.

Religious Studies

Social Work

Women's Studies
Chairperson: L. L. McAlister; Professor: L. L. McAlister; Associate Professors: G. Grewal, M. Myerson, J. B. Snook, K. Vaz; Assistant Professors: I. Bartsch, C. DiPalma, C. Eichner; Courtesy Assistant Professors: R. A. Banes, L. M. Whiteford.

ARTS AND SCIENCES COURSES

AFS 3284 AFRICAN LITERATURE SURVEY
Topics include: African religion, value systems, art and the aesthetics, family and life-cycle, impact of Islam and Christianity and conflict of cultures.

AFS 3251 ENVIRONMENTAL-CULTURAL STUDY IN AFRICA
A study of African culture and the relationship between life and the environment, and the impact of modernization on the culture and the environment.

AFS 3284 AFRICAN LITERATURE SURVEY
African literature survey explores the socio-historical, philosophical, and political dynamics of African cultures through the study of African oral literature and the reading of African literary text of various genres.

AMH 3571 AFRICAN AMERICAN HISTORY TO 1865
A survey of African American history, with an emphasis on North America, from 1865 to the present. Topics include reconstruction, World War I, World War II, and the Civil Rights Movement. (Also offered under History.)

AMH 3572 AFRICAN AMERICAN HISTORY SINCE 1865
A survey of African American history, with an emphasis on North America, from 1865 to the present. Topics include reconstruction, World War I, World War II, and the Civil Rights Movement. (Also offered under History.)

AFA 4335 BLACK WOMEN IN AMERICA
A study of the contemporary experience of black women in America, including the African roots, myths and realities surrounding that experience. (Also listed under Women's Studies.)

AFA 4900 DIRECTED READINGS
Independent readings in a particular area of African and Afro-American Studies, selected by student and instructor.

AFA 4931 SELECTED TOPICS IN AFRICANA STUDIES
Topics offered are selected to reflect student needs and faculty interests. In depth study in such areas as the African-American Studies, the Black Experience in the Americas; European Expansion in Africa to 10th century; Contemporary Economic Problems in Africa.

AFH 3100 AFRICAN HISTORY TO 1850
An outline survey of pre-colonial African history including a precolonial introduction to the use of primary sources (such as anthropology, oral tradition, cultural anthropology, comparative linguistics, documents) in reconstructing the African past. (Also listed under History.)

AFH 3200 AFRICAN HISTORY SINCE 1850
Survey of the colonial and post-colonial history of Africa. Emphasis on the impact of European and other alien influences on the continent, emergence of independent nations and states and post independence problems of nation building and economic development. (Also listed under History.)

AFS 2250 CULTURE AND SOCIETY IN AFRICA
Topics include: African religion, value systems, art and the aesthetics, family and life-cycle, impact of Islam and Christianity and conflict of cultures.

AMS 3700 RACISM IN AMERICAN SOCIETY
An introduction into the causes and effects of racism in American history, literature, art, the media, and folklore. Related concepts of anti-Semitism and class conflict will also be studied. (Also offered under American Studies.)

ANT 4340 THE CARIBBEAN
A study of the Caribbean region, with emphasis on the depopulation of the aboriginal population and the resettlement of the area via slavery, indenture, and migration; contemporary ethnic heterogeneity; economic problems of Third World microstates; development of a modern social and political
conscience. Religious diversity, music, the graphic arts, and the literature of the contemporary Caribbean will also be surveyed. (Also offered under Anthropology.)

**CPO 4204 GOVERNMENT AND POLITICS OF AFRICA -SS -AF**  
(3)  
Designed to provide the information and analytical tools necessary to interpret current Sub-Saharan African politics. Survey of political organization in traditional African societies; politics under colonial rule; the struggle for independence, and post-independence politics.

**CPO 4244 GOVERNMENT AND POLITICS OF EAST, CENTRAL AND SOUTHERN AFRICA**  
(3)  
In-depth study of political developments, ideologies and modernization in East, Central and Southern Africa including race relations and white minority rule in Southern Africa.

**HUM 2420 ARTS AND MUSIC OF THE AFRICAN PEOPLE**  
(3)  
An examination of the visual arts, painting, sculpture, architecture and music of Sub-Saharan Africa; their meaning and impact on the arts and music of the Western World.

**INR 4254 AFRICA IN WORLD AFFAIRS -XMW**  
(3)  
An examination of Africa's place and role in world affairs, including an analysis of the impact of external forces, international relations in post-colonial Africa, the relations of African states with the major world powers, the U.N. and its agencies.

**ISS 5934 SELECTED TOPICS**  
(1-3)  
PR: CI plus senior standing or graduate status. Interdisciplinary studies with course content dependent on student demand and instructor's interest. May be repeated as topics vary.

**PHI 4073 AFRICAN PHILOSOPHY -6A -XMW**  
(3)  
A descriptive and analytical study of African philosophical thought, featuring reflective comparisons of African and Western categories of thought. (Also offered under Philosophy.)

**PHM 4120 MAJOR BLACK THINKERS -XMW**  
(3)  
Survey of major themes and issues in African/African-American intellectual and political thought with an emphasis on theories of nationalism. Works of individuals such as Martin Delany, Booker T. Washington, W. E. B. DuBois, Marcus Garvey, Malcolm X, and Angela Davis are considered.

**PUP 3313 BLACKS IN THE AMERICAN POLITICAL PROCESS**  
(3)  
An examination of the political experience of Blacks in the American political process including their political socialization, and struggle to become effective participants in the American political process. (Also offered under Political Science.)

**SPC 3710 COMMUNICATION AND CULTURAL DIVERSITY -SS**  
(3)  
Examination of communication and cultural diversity within the United States. Cultural groups include racial and ethnic (e.g. African American, Latino American, Asian American), social class, age and generational, religious (e.g. Jewish) and gender. (Also offered under Communication.)

**American Studies**  
(see Humanities and American Studies)

**Anthropology**

**ANT 1001 THE HUMAN ADVENTURE**  
(2)  
This course examines the anthropological evidence relevant to controversial questions concerning human origins, social practices, human and animal communication, and ancient societies. Not for major credit.

**ANT 2000 INTRODUCTION TO ANTHROPOLOGY -SS -AF**  
(3)  
The crosscultural study of the human species in biological and social perspective. Surveys the four major branches of anthropology: physical anthropology (human biology), archaeology (the analysis of the prehistoric and historic remains of human cultures), anthropological linguistics (the analysis of language in its cultural context), and cultural anthropology (the crosscultural study of peoples living in the world today, be they in tribal, peasant, or urban societies).

**ANT 2410 CULTURAL ANTHROPOLOGY -SS -AF**  
(3)  
PR: ANT 2000 or CI. Discussion of major methods and orientations to the crosscultural study of the world's peoples. Representative case studies are used to demonstrate variations in human adaptations and to encourage an appreciation of diverse values and lifeways.

**ANT 3005 THE ANTHROPOLOGICAL PERSPECTIVE -AF**  
(3)  
For non-anthropology majors only. Presents the basic concepts of anthropology as they are relevant to contemporary life. Aims at enabling the student to understand the anthropologist's crosscultural view of the human species as adapting through biosocial means to life on this planet. May not be counted for credit toward an anthropology major.

**ANT 3101 ARCHAEOLOGY -SS**  
(3)  
The crosscultural study of humankind from its beginnings up to and including the historic period through the recovery, description, and analysis of the remains of past cultures and societies.

**ANT 2511 BIOLOGICAL ANTHROPOLOGY -NS**  
(3)  
PR: ANT 2000 or CI. Non-human primates, the fossil record and the biology of races are surveyed in order to understand the human animal as a product of biosocial phenomena. Anatomy, genetics, culture and evolution are emphasized.

**ANT 3610 ANTHROPOLOGICAL LINGUISTICS -SS**  
(3)  
PR: ANT 2000 or CI. The comparative study of language in its cultural context, especially emphasizing the role of language in the cultural interpretation of physical and social reality.

**ANT 4034 THEORIES OF CULTURE**  
(3)  
PR: Senior standing with major in anthropology or equivalent. The major concepts that form the anthropological view of humanity are viewed in historical perspective. Basic ideas of the western philosophical tradition are analyzed from the Greeks to the 19th century when they became incorporated into the new discipline of anthropology. 20th century anthropological developments on these themes are considered.

**ANT 4124 ARCHAEOLOGICAL FIELD METHODS**  
(4-12)  
PR: ANT 3100 or CI. Offered as all or part of a summer (or other semester) field session. May or may not be combined with Florida Anthropology and Laboratory Methods in Archaeology. Students learn appropriate methods of archaeological survey, excavation, data and materials recovery, recording, and processing.

**ANT 4149 FANTASTIC ARCHAEOLOGY: MYSTERIES OF THE HUMAN PAST - XMW**  
(3)  
Mysteries of the human past, including the Lost Continent of Atlantis, Ancient Astronauts, the 'Myth' of the Moundbuilders, and the Shroud of Turin will be discussed in detail in this course. The practice of archaeology and how we know the past will also be presented, and skills in critical thinking will be emphasized. May not be counted for credit toward an anthropology major.

**ANT 4153 NORTH AMERICAN ARCHAEOLOGY -6A**  
(3)  
PR: ANT 3101 or CI. An examination of the evidence regarding the human settlement of North America from its beginnings through the development of aboriginal culture to the period of European conquest. Emphasis on the comparative study of material culture at selected sites from all time periods. No field work is involved.

**ANT 4158 FLORIDA ARCHAEOLOGY**  
(4)  
PR: ANT 3101 or CI. Culture history and culture process over 10,000 years from the time of the first people in Florida (Paleo-Indians) through the elaborate Weeden Island and Safety Harbor burial and temple mound cultures to the Spanish entrada and consequences of European conquest. Review of temporal and spatial relationships within the entire eastern U.S. and elsewhere. May be part of a summer (or other semester) field school, combined with
Field Methods in Archaeology and Laboratory Methods in Archaeology.

ANT 4162 SOUTH AMERICAN ARCHAEOLOGY (3)
PR: ANT 3101 or CI. Describes and analyzes the sequence of cultural development in prehistoric South America. Cultures such as the Inca, Chavin, Mocheña, Wari, Chimú are included. Emphasis on the environmental setting and the relationship between cultural ecology and the growth of civilization.

ANT 4163 MESOAMERICAN ARCHAEOLOGY (3)
PR: ANT 3101 or CI. The chronological sequence from its beginnings through Protohistoric development is described and analyzed. Cultures such as the Maya, Aztec, Mixtec, Zapotec, Toltec, and Totonac are included, with emphasis on the environmental setting and the relationship between cultural ecology and the growth of civilization.

ANT 4172 HISTORICAL ARCHAEOLOGY -6A (3)
PR: ANT 3101 or CI. A survey and analysis of archaeology focused on the historic period. Laboratory research with data recovered from historic sites in addition to classroom.

ANT 4180 LABORATORY METHODS IN ARCHAEOLOGY (2-4)
PR: ANT 3101 or CI. Data and materials recovered from archaeological survey and excavation are processed in the laboratory. Includes artifact cleaning, cataloguing, iconography, and analysis; soil flotation; reconstruction and conservation of artifacts; mapmaking, etc. May be offered as part of a summer (or other semester) field session. May be combined with Florida Archaeology and Field Methods in Archaeology.

ANT 4181 MUSEUM METHODS (4)
PR: ANT 3101 and CI. Design, preparation and installation of exhibits in the Department of Anthropology Teaching Exhibit Gallery. Emphasis on theory, research, design, and construction. Discussion of museum-related issues such as administration and curation.

ANT 4226 ANTHROPOLOGY OF ART -6A (3)
PR: ANT 2410 or CI. An examination of the relationship between the visual arts (sculpture, painting, masks, carving, etc.) and culture in non-Western societies. Emphasis on formal symbolic and functional comparative analysis of specific art styles based on cross-cultural materials. Consideration of diffusion and change of art forms, commercial and ethnic arts, and role of the artist.

ANT 4231 FOLKLORE -6A (3)
PR: ANT 2410 or CI. Focuses on cross-cultural methods and techniques regarding the collection, classification, and analysis of such materials as myths, jokes, games, and items of material culture. African (or African-derived), Oceanic and Native American societies are surveyed.

ANT 4241 MAGIC AND RELIGION -6A -XMW (3)
PR: ANT 2410 or CI. The crosscultural study of the social and cultural aspects of religion. Religious activities in traditional and modern societies will be discussed. Ritual behavior, religious practitioners and symbols of belief will be considered in light of their impact on the social, political or economic aspects of peoples' lives.

ANT 4285 ORAL HISTORY (3)
PR: ANT 2410 or CI. A survey of the history, methods, and current applications of oral history research, primarily in the anthropological study of culture, but with reference to allied disciplines. Students will become familiar with oral history through intensive analysis of selected case studies as well as guided field projects.

ANT 4302 GENDER IN CROSS-CULTURAL PERSPECTIVE -3A-W (3)
PR: ANT 2410 or CI. Focuses on various theories, models and beliefs about male-female behaviors and interactions in human cultures throughout history and in various societies in the world today. (Also offered under Women's Studies.)

ANT 4305 VISUAL ANTHROPOLOGY (3)
PR: ANT 2410 or CI. The use of photographic techniques for the crosscultural recording and analysis of human activities. The study of ethnographic photography as both art and science, and the production of an anthropological study that expresses the goal of "visual literacy." Review and evaluation of the use of visual techniques and the evidence they provide to the social scientist.

ANT 4312 NORTH AMERICAN INDIANS (3)
PR: ANT 2410 or CI. An examination of the evidence for the origin and antiquity of human beings in North America and of patterns of regional development until the period of contact with European colonists. Emphasis on varieties of ecological adaptation, social, political and religious systems, enculturation and worldview, folklore and visual art.

ANT 4316 ETHNIC DIVERSITY IN THE UNITED STATES -XMW (3)
PR: ANT 2410 or CI. Special concerns include ethnic diversity in American society, historical and contemporary diversity in values, experiences, and lifestyles, and an examination of policies and problems affecting ethnic groups in the United States.

ANT 4324 MEXICO AND CENTRAL AMERICA (3)
PR: ANT 2410 or CI. Focuses on the history, contemporary values and interpersonal relationships, and patterns of rural and urban life in Mesoamerica. Guatemala and Mexico are emphasized.

ANT 4340 THE CARIBBEAN -6A -XMW (3)
PR: ANT 2410 or CI. Main themes include: the depopulation of the aboriginal population and the resettlement of the area via slavery, indenture, and migration; contemporary ethnic heterogeneity; economic problems of Third World microstates; development of a modern social and political consciousness. Religious diversity, music, the graphic arts, and the literature of the contemporary Caribbean will also be surveyed. (Also offered under Africana Studies.)

ANT 4401 EXPLORING CROSS-CULTURAL DIVERSITY -XMW (3)
This course will introduce students to anthropological perspectives which are useful in understanding the implications of cultural diversity related to changing demographic patterns within our country as well as to increasing globalization. May not be counted for credit toward an anthropology major.

ANT 4432 THE INDIVIDUAL AND CULTURE -6A -XMW (3)
PR: ANT 2410 or CI. The relationship between the individual and society is studied crossculturally. Main themes include child-rearing practices, psychosomatic illness and curing. Discussion of theories and models of personality development with special reference to their applicability to the emerging field of cross-cultural mental health planning.

ANT 4442 URBAN LIFE AND CULTURE (3)
PR: ANT 2410 or CI. The crosscultural study of urbanization, urbanism and human problems associated with metropolitan environments. Emphasis on the ethnography of city life and its relationship to the practical applications of urban research.

ANT 4462 HEALTH, ILLNESS, AND CULTURE (3)
PR: ANT 2410 or CI. The study of health and human behavior in crosscultural perspective. Main themes include: the impact of disease on the development of human culture; comparative studies of curing practices; medical systems and their relationship to ideology. Emphasis on understanding the role of medicine, and the behavior of both practitioners and patients in modern societies.

ANT 4495 METHODS IN CULTURAL RESEARCH (3)
PR: CI. The stages in the development and execution of ethnological research are discussed and practiced. Literature search, hypothesis formulation, collection of data, elicitation of information, data analysis, and report presentation are stressed. Research design models from the case literature are studied and supervised research in the local community is designed and carried out.

ANT 4520 FORENSIC ANTHROPOLOGY (3)
PR: ANT 2511 or CI. A detailed overview of forensic anthropology, skeletal variation, techniques of determining
ANT 5904 DIRECTED READING (1-4)  
PR: CI. Individual guidance in a selected research project. Contract required prior to registration. (S/U only.)

ANT 5915 INDIVIDUAL RESEARCH (2-4)  
PR: CI. Individual guidance in a selected research project. Contract required prior to registration. (S/U only.)

ANT 5937 SEMINAR IN ANTHROPOLOGY (2-4)  
PR: Graduate standing. Topics to be chosen by students and instructor.

Astronomy

AST 2005 ASTRONOMY OF THE SOLAR SYSTEM -NS (4)  
Introduction to the Astronomy of the Solar System. No Physics background assumed. Topics covered include properties of light, stellar coordinates, timekeeping, eclipses, formation and dynamics of the solar system, properties of the sun and planets, space exploration of planets and the moon, life on other worlds. This course is complementary to but independent of AST 2006. Either may be taken before the other or taken by itself.

AST 2006 STELLAR ASTRONOMY AND COSMOLOGY -NS (4)  
An introduction to Astrophysics and the structure of the universe. No Physics background assumed. Topics covered include properties of light, stellar coordinates, measurement of the physical properties of stars, formation, structure and evolution of stars, normal and peculiar galaxies, cosmology. This course is complementary to but independent of AST 2005. Either may be taken before the other or taken by itself.

AST 3032 ILLUSTRATING ASTRONOMY (3)  
Constellations, use of small telescopes, etc., apparent motions of celestial objects, comets and meteors, seasons, weather. Current events in the space program. Planetarium and open sky demonstrations. Lec,-lab.

AST 3033 CONTEMPORARY THINKING IN ASTRONOMY-NS (3)  
PR: Junior or Senior Standing or CI. Seminar designed to assist the layman, with no scientific background, in comprehending contemporary developments in Astronomy. Necessary background material is provided by the instructor and a text. Topics covered in recent years include the space program, pulsars, x-ray astronomy, black holes, extra-terrestrial life, interacting galaxies, cosmology.

AST 3044 ARCHAEAOASTRONOMY (3)  
PR: Jr. or Sr. Standing or CI. Astronomical concepts and observational techniques used by prehistoric/ancient peoples for detecting change of seasons, constructing calendars, predicting eclipses, etc. Particular attention is given to Stonehenge, and to works of N.A. Indians, the Maya and Aztecs, and the Egyptians. Lec,-lab.

AST 3652 NAVIGATION (3)  
PR: Some knowledge of geometry, algebra, and trigonometry. Timekeeping, use of sextant, constellations, celestial navigation with minimum equipment, spherical astronomy.

AST 3930 SELECTED TOPICS IN ASTRONOMY (1-4)  
PR: CI. Course content will depend upon the interest of the faculty member and student demand. May be repeated up to 8 credit hours.

AST 3956 INTRODUCTION TO CELESTIAL MECHANICS (3)  
PR: MAC 2313 or MAC 2283 and some knowledge of differential equations, or CI. The two-body problem, introduction to Hamiltonian systems and canonical variables, equilibrium solutions and stability, elements of perturbation theory.

AST 3982 SELECTED TOPICS IN ASTRONOMY (1-5)  
PR: Senior or advanced junior standing or CI. Intensive coverage of special topics to suit needs of advanced students.

Gly 2040 ORIGINS: FROM THE BIG BANG TO THE ICE AGE -NS (3)  
The history of the cosmos, origin of the universe, galaxies, the solar system, and earth, evolution of life, great extinctions including the dinosaurs, evolution of the primates, and the environmental future of the planet. (For both non-science and science majors.)

Gly 4045 MOONS, Planets and Meteors: An Introduction to Planetary Science -XMW (3)  
PR: Junior standing. Solar System exploration, from
An Aristotle to NASA. Modern views on the origins of meteorites, the Moon, Mars, Venus, and other planetary bodies, and the methods of planetary study. Meteor impacts, their effects, future hazard. Space science as a tool in the study of the Earth. Field trips, lectures, Internet exercises.

**Bachelors of Independent Study**

- **HUM 4909** BIS HUMANITIES, INDEPENDENT STUDY (15) (S/U only)
- **HUM 4939** BIS HUMANITIES, SEMINAR (15) (S/U only)
- **IDS 4990** BIS INTER-AREA STUDIES (30) (S/U only)
- **ISC 4909** BIS NATURAL SCIENCES, INDEPENDENT STUDY (15) (S/U only)
- **ISC 4939** BIS NATURAL SCIENCES, SEMINAR (15) (S/U only)
- **ISS 4909** BIS SOCIAL SCIENCES, INDEPENDENT STUDY (15) (S/U only)
- **ISS 4939** BIS SOCIAL SCIENCES, SEMINAR (15) (S/U only)

**Biology**

**NOTE:** Designated levels indicate for whom courses are intended: 2000-Freshmen/Sophomore, 3000-Junior, 4000-Senior, 5000-Advanced Seniors and Graduate Student status. Students who attempt higher-level courses too early may not do well in them.

- **BOT 3373C** VASCULAR PLANTS: FORM AND FUNCTION (4) (S/U only)

- **BOT 3850 MEDICAL BOTANY** (3)
  - PR: BSC 2010, 2010L, 2011, 2011L, CHM2210, and Junior standing. Study of agents that are produced by plants and that are toxic or psychoactive in human beings or are useful as remedies. Lec.

- **BOT 4143C FIELD BOTANY** (3)
  - PR: BOT 3373C. Identification and classification of native and naturalized flowering plants of Florida including historical, climatic and floristic aspects of plant communities. Conducted largely in the field. Lec-lab.

- **BOT 4223C PLANT ANATOMY** (3)
  - PR: BOT 3373C. Comparative studies of tissue and organ systems of fossil and present-day vascular plants. Functional and phylogenetic aspects stressed. Lec-lab.

- **BOT 4334C MYCOTOLOGY** (3)
  - PR: BOT 3373C or MCB 3030C. A survey of the fungi with emphasis on their taxonomy, morphology, physiology and economic importance. Lec-lab.

- **BOT 4503 PLANT PHYSIOLOGY** (3)

- **BOT 4503L PLANT PHYSIOLOGY LABORATORY** (1)
  - CR/PR: BOT 4503. Laboratory portion of Plant Physiology.

- **BOT 4713C PLANT TAXONOMY** (3)

- **BOT 4810 ECONOMIC BOTANY** (3)
  - PR: BOT 3373C. Study of the uses of plants by man for food, chemicals, fibers, and medicines. Lec.

- **BOT 5185C MARINE BOTANY** (4)
  - PR: BOT 3373C and PCB 3043 or CI. A field course in marine plants with emphasis on ecology and functional morphology. Field work will stress the ecological aspects of plants in a subtropical marine environment in Florida. Lec-lab.

- **BSC 1005 BIOLOGICAL PRINCIPLES FOR NON-MAJORS** (3)
  - Lectures and demonstrations of selected biological principles, usually taught by television. **For non-majors only.**

- **BSC 2010 BIOLOGY I - CELLULAR PROCESSES** (3)
  - CR/PR: CHM 2045. An analysis of biological systems at the cellular and subcellular levels: cell structure and function, respiration, photosynthesis, mitosis and meio- 
sis, genetics and gene expression. Lec.

- **BSC 2010L BIOLOGY I - CELLULAR PROCESSES LABORATORY** (1)

- **BSC 2011 BIOLOGY II - DIVERSITY** (3)

- **BSC 2011L BIOLOGY II - DIVERSITY LABORATORY** (1)

- **BSC 2022 BIOLOGY OF AGING** (3)
  - An introduction to the basic biology of aging. Emphasis will be placed on understanding basic principles of biology relevant to time and the aging process which begins at birth. Lec. **May be taken by majors for free elective credit only.**

- **BSC 2025 FOOD: PERSONAL AND GLOBAL PERSPECTIVES** (3)
  - The application of basic biological principles to human nutritional problems, to learn how various cultures achieve adequate nutrition and how environmental changes impact both personal and global nutrition. Lec. **May be taken by majors for free elective credit only.**

- **BSC 2030 SAVE THE PLANET** (3)
  - An introduction to environmental sciences via television and independent study. Emphasis will be placed on understanding basic principles of ecology relevant to problems and topics of the earth’s environment. **May be taken by majors for free elective credit only. Credit will be given for either BSC 2030 or BSC 2050, but not both.**

- **BSC 2035 SEX & TODAY’S WORLD** (3)
  - The application of basic biological principles to female and male sexual behavior and reproduction; current social problems are treated from a biological perspective. Lec. **May be taken by majors for free elective credit only.**

- **BSC 2050 ENVIRONMENT** (3)
  - The application of basic scientific principles to global environmental problems; how human activities impact the environment. Lec. **May be taken by majors for free elective credit only. Credit will be given for either BSC 2030 or BSC 2050, but not both.**

- **BSC 2085 HUMAN ANATOMY & PHYSIOLOGY I** (3)
  - PR: BSC 2010, 2010L, 2011, 2011L. First half of a two-semester series introducing the structure and function of the human body’s major organ systems. Cellular and cardiac physiology, nervous, endocrine, skeletal, and muscular systems will be covered. May be taken by Departmental majors for free elective credit only.

- **BSC 2086 HUMAN ANATOMY & PHYSIOLOGY II** (3)
  - PR: BSC 2085. Second half of a two-semester series introducing the structure and function of the human body’s major organ systems. Circulatory, lymphatic, immune, respiratory, digestive, urinary, and reproductive systems will be covered. May be taken by Departmental majors for free elective credit only.

- **BSC 2932 SELECTED TOPICS IN BIOLOGY** (1-4)
  - May be repeated.

- **BSC 3263 MARINE BIOLOGY** (3)

- **BSC 4057 ENVIRONMENTAL ISSUES-XMW** (3)
  - Study of biological, economic, ethical, legal, political and social issues relating to environmental problems. Lec. **May be taken by majors for free elective credit only.**
BSC 4402L BIOLOGICAL RESEARCH METHODS (3)  
PR: BSC 4931 or BSC 4932. A course to prepare Biology Honors students to work on their Honors theses. Enrollment is limited to Biology Department Honors students. S/U only.

BSC 4905 INDEPENDENT STUDY (1-3)  
PR: CI and CC. Specialized independent study determined by the student's needs and interests. The written contract required by the Department of Biology specifies the regulations governing independent study. May be repeated. May be taken by majors for free elective credit only. S/U only.

BSC 4910 UNDERGRADUATE RESEARCH (1-4)  
PR: CI and CC. Individual investigation with faculty supervision. May be repeated; only four credit hours may count for the major. May be repeated; only four credit hours may count for the major. S/U only.

BSC 4931 BIOLOGY HONORS SEMINAR I (2)  
A course linked to the Biology Departmental Seminar in which students read publications related to the seminars, discuss the presentations and write critiques. Enrollment is limited to Biology Department Honors students.

BSC 4932 BIOLOGY HONORS SEMINAR II (3)  
A reading and discussion course involving areas of general interest in biology. Enrollment is limited to Biology Department Honors students.

BSC 4933 SELECTED TOPICS IN BIOLOGY (1-3)  
May be repeated.

BSC 4970 BIOLOGY HONORS THESIS (1-3)  
PR: BSC 4402L. A thesis based on independent research carried out by the student. Enrollment is limited to Biology Department Honors students. May be repeated; only four credit hours may count for the major. S/U only.

BSC 5931 SELECTED TOPICS IN BIOLOGY (1-6)  
May be repeated.

ENY 3004C INTRODUCTION TO ENTOMOLOGY (3)  

ENY 5505C AQUATIC ENTOMOLOGY (3)  
PR: ENY 3004C or CI. Taxonomy, development, and ecology of aquatic insects with emphasis on local forms. Lec-lab.

MCB 3030C GENERAL MICROBIOLOGY (4)  
PR: BSC 2010, BSC 2010L, BSC 2011, BSC 2011L, and CHM 2210. PCB 3063 is recommended. Genetics is recommended. Introduction to the biological interact of microorganisms: structure, physiology, ecology of bacteria, algae, viruses, protozoa and lower fungi. The laboratory involves preparation of culture media, staining, pure culture methodology, isolation of microorganisms from nature, enumeration techniques, resistance to infectious disease. Lec-lab.

MCB 4115C DETERMINATIVE BACTERIOLOGY (5)  
PR: MCB 3030C. Survey of bacterial classification; detailed examinations of bacteria important to man in agriculture, industry and as pathogens. Lec-lab.

MCB 4004 MICROBIAL PHYSIOLOGY AND GENETICS (4)  
PR: MCB 3030C and CR/PR: BCH 3023. A study of the physiological, metabolic, and genetic phenomena pertinent to understanding the growth, development, ecology, regulation, and reproduction of microorganisms. The course emphasizes the interdependence of physiological and genetic approaches to microbiology. Lec.

MCB 4404L MICROBIAL PHYSIOLOGY AND GENETICS LABORATORY (1)  
CR/PR: MCB 4404. Laboratory portion of Microbial Physiology & Genetics.

MCB 4902 VIROLOGY (3)  
PR: MCB 3030C. The biology of viruses associated with plants, animals, and bacteria will be considered; the nature of viruses, mechanisms of viral pathogenesis, and interactions with host cells. Lec.

MCB 4910 MICROBIOLOGY UNDERGRADUATE RESEARCH (1-4)  
PR: CI AND CC. Individual investigation with faculty supervision. May be repeated; only four credit hours may count for the major. S/U only.

MCB 4934 SEMINAR IN MICROBIOLOGY (1)  
CC: Advanced Junior or Senior standing. May be repeated. S/U only.

MCB 5206 PUBLIC HEALTH AND PATHOGENIC MICROBIOLOGY (3)  
PR: MCB 3030C or CI. A comprehensive survey of pathogenic microbes responsible for disease in man and other animals and the impact of these infectious agents on the public health. These pathogens will be studied with respect to their morphology, cultivation, mechanisms of pathogenicity, laboratory diagnosis, and epidemiology. Lec.
BCH 4034 ADVANCED BIOCHEMISTRY (3)
PR: BCH 4674 or CI. An emphasis on the evolutionary mechanisms that influence an organism’s behavioral responses to environmental events. The theoretical framework is presented and analyzed. Lec.

PCB 5525 MOLECULAR GENETICS (3)
PR: PCB 3063 or CI. Detailed examination of DNA, RNA, and protein synthesis; the effects of mutations on proteins, cellular control; selected aspects of viral, bacterial, and fungal genetics. Lec.

PCB 5845 PRINCIPLES OF NEUROSCIENCE (4)
PR: PCB 4723 or CI. Study of the mammalian brain’s structure and function with an emphasis on the neuroanatomy, neuropharmacology, and neurophysiology of the human brain. Lec.

ZOO 3205C ADVANCED INVERTEBRATE ZOOLOGY (4)
PR: BSC 2010, 2010L, BSC 2011, 2011L. A study of the major invertebrate groups with emphasis on local forms. Field work will be required. Lec.-lab.

ZOO 3303 VERTEBRATE ZOOLOGY (3)
PR: BSC 2010, BSC 2010L, BSC 2011, BSC 2011L. The origin, diversity, and adaptations of vertebrates. Phylegetic systematics (Cladistics) will be used as the basis for determining evolutionary relationships of organisms. Lec.

ZOO 3323C ANATOMY OF CHORDATES (4)

ZOO 4512 SOCIOBIOLOGY -XMW (3)
An analysis of Animal and human behavior such as sex, territoriality, and aggression in the context of evolution. May be taken by majors for free elective credit only.

ZOO 4513 ANIMAL BEHAVIOR (3)
PR: PCB 3043 or PCB 3063. An introduction to comparative animal behavior (Ethology) with emphasis on communication, social use of space, and behavioral evolution. Lec.

ZOO 4603C ANIMAL EMBRYOLOGY (4)

ZOO 4753C HISTOLOGY (4)
PR: PCB 3023. Comparative approach to the study of tissues and the relation of their structure and function. Lec.-lab.

ZOO 5235 PARASITOLOGY (3)
PR: MCB 3030C, ZOO 3205C, ZOO 4753 or CI. Fundamentals of animal parasitology and parasitism, the biology of selected animal parasites, including those of major importance to man. Lec.

ZOO 5425C HERPETOLOGY (4)
PR: ZOO 3232C ZOO 3303, or CI. Major aspects of amphibian and reptilian biology emphasizing fossil history, evolutionary morphology, sensory physiology, life history and reproductive behavior. Field trip-Lec.

ZOO 5456C ICHTHYOLOGY (4)
PR: ZOO 3232C or ZOO 3303 and senior standing or CI. PCB 4674 is recommended. Evolution, systematics, structure, behavior, physiology, and ecology of fishes. Lec.-lab.

ZOO 5555C MARINE ANIMAL ECOLOGY (4)
PR: PCB 3043 or CI. Investigation of energy flow, bio-geochemical cycles, and community structure in marine environments. Lec.-lab.

Chemistry

BCH 3023 INTRODUCTORY BIOCHEMISTRY (3)
PR: CHM 2200 or CHM 2211 and BSC 2010C. Introduction to the chemistry and intermediary metabolism of biologically important substances. Lec.

BCH 3032L BASIC BIOCHEMISTRY LABORATORY (2)
CR: BCH 3023. Practical work in determination and characterization of important biomolecules. Lec.-lab.

BCH 4034 ADVANCED BIOCHEMISTRY (3)
PR: BCH 3023. An advanced undergraduate course emphasizing such topics as metabolic regulation, DNA and RNA structure and function, receptors, channels, anti-bodies, and control. Lec.

BCH 5045 BIOCHEMISTRY CORE COURSE (3)
PR: Either CHM 2211, CHM 2211L and CHM 3400 or CHM 4410 or graduate standing. A one-semester survey course in biochemistry for graduate students in chemistry, biology, and other appropriate fields and for particularly well-qualified undergraduates. Lec.

CHM 2021 CHEMISTRY FOR TODAY -NS (4)
PR: High school chemistry and high school mathematics including algebra are recommended. An introduction to the principles and applications of modern chemistry including the properties of matter, structural view of matter and reactions, quantitative relations in chemical reactions, technological aspects and societal impact. Lec.

CHM 2030 INTRODUCTION TO GENERAL, ORGANIC AND BIOCHEMISTRY (4)
First half of a two-semester sequence. Fundamental concepts of general, organic, and biological chemistry. No credit for science majors.

CHM 2045 GENERAL CHEMISTRY I -NS (3)
PR: One year of high school chemistry and two years of high school mathematics including algebra; or, completion of CHM 2040 with grade of C or better. Principles and applications of chemistry including properties of substances and reactions, thermochemistry, atomic-molecular structure and bonding, periodic properties of elements and compounds.

CHM 2045L GENERAL CHEMISTRY I LABORATORY (1)
CR: CHM 2041. Laboratory portion of General Chemistry I. Introduction to laboratory techniques; study of properties of elements and compounds; synthesis and analysis of natural and commercial materials.

CHM 2046 GENERAL CHEMISTRY II -NS (3)
PR: CHM 2041 or CHM 2045L or equivalent. Continuation of General Chemistry I. Lec.-lab.

CHM 2046L GENERAL CHEMISTRY II LABORATORY (1)
PR: CHM 2045L. Laboratory portion of General Chemistry II. Continuation of chemistry laboratory work.

CHM 2200 ORGANIC CHEMISTRY (4)
PR: CHM 2045 or equivalent. Fundamental organic chemistry principles. Structure, nomenclature, properties, preparation, reactions of hydrocarbons, alkyl halides, alcohols, phenols, ethers, sulfur analogs and other compounds. A one-semester course.

CHM 2210 ORGANIC CHEMISTRY I (3)
PR: CHM 2046 or equivalent. Fundamental principles of organic chemistry. Lec.

CHM 2210L ORGANIC CHEMISTRY LABORATORY I (2)

CHM 2211 ORGANIC CHEMISTRY II (3)
PR: CHM 2210 or equivalent. Continuation of organic chemistry. Lec.

CHM 2211L ORGANIC CHEMISTRY LABORATORY II (2)
CR: CHM 2210L. Continuation of organic chemistry laboratory. Lec.-dis.

CHM 2532 SELECTED TOPICS IN CHEMISTRY (1-3)
Topics of interest to students relating to chemistry and other sciences.

CHM 3120C ELEMENTARY ANALYTICAL CHEMISTRY (4)

CHM 3400 ELEMENTAL PHYSICAL CHEMISTRY I (3)
PR: CHM 2046, CHM 2046L, MAC 2281 or MAC 2311, PHY 2054, PHY 2054L. Introduction to thermodynamics. Properties of solutions with emphasis on biological applications. Lec.-lab.

CHM 3400 ELEMENTAL PHYSICAL CHEMISTRY II (3)
PR: CHM 3400. Reaction kinetics, enzyme kinetics, macromolecular systems, radiochemistry, molecular spectroscopy, and chemical bonding.

CHM 3402L ELEMENTARY PHYSICAL CHEMISTRY LABORATORY (1)
PR: CHM 3120C. CR: CHM 3400 and/or CHM 3401. A
CHM 3610 INTERMEDIATE INORGANIC CHEMISTRY (3)

PR: CHM 2046, CHM 2046L. Fundamental principles of inorganic chemistry including atomic structure, bonding theories and structural consequences, transition metal chemistry and illustrative laboratory work.

CHM 3610L INTERMEDIATE INORGANIC CHEMISTRY LABORATORY

CR: CHM 3610. Illustrative laboratory work concerning the fundamental principles of inorganic chemistry including atomic structure, bonding, transition metal chemistry, structural consequences and spectroscopic methods.

CHM 4060 USE OF THE CHEMICAL LITERATURE (1)

Discussions and assignments using abstracts, bibliographies, indices, encyclopedias, journals, patent files, electronic databases, and other information sources to obtain chemical and technical material and including written and oral presentations. Career information and opportunities also discussed.

CHM 4070 HISTORICAL PERSPECTIVES IN CHEMISTRY -6A -XMW (3)

PR: One year of college chemistry, or senior standing and CR: A study in depth of the historical and philosophical aspects of outstanding chemical discoveries and theories. Lec.-dis.

CHM 4130C METHODS OF INSTRUMENTAL ANALYSIS (4)

PR: CHM 3120C, CHM 2211, CHM 2211L, CHM 4060, CHM 4410. Theory and applications of instrumental methods in chemical research, chemical synthesis and analysis; electrochemical and calorimetric techniques, separation methods, spectroscopy, statistical analysis of data, computer data handling, and individual projects.

CHM 4131C METHODS OF CHEMICAL INVESTIGATION (4)

PR: CHM 4130C. Continuation of CHM 4130C.

CHM 4300 BIOMOLECULES I (3)

PR: CHM 2211. Nature, structure, elucidation, synthesis and (in selected cases) organic chemical mechanisms of biochemical involvement of the major classes of organic compounds found in living systems. Lec.

CHM 4410 PHYSICAL CHEMISTRY I (3)

PR: CHM 3120C and MAC 2282 or MAC 2312, and PHY 2054 or PHY 2049. Thermodynamics, the states of matter, solutions. Lec.

CHM 4411 PHYSICAL CHEMISTRY II (3)

PR: CHM 3120C and MAC 2282 or MAC 2312, and PHY 2054 or PHY 2049. Introduction to quantum mechanics and molecular spectroscopy. Lec.

CHM 4412 PHYSICAL CHEMISTRY III (3)


CHM 4610 ADVANCED INORGANIC CHEMISTRY (3)

PR: CHM 3610 and CHM 4410 or CI. An advanced descriptive and theoretical treatment of inorganic compounds. Lec.

CHM 4905 INDEPENDENT STUDY (1-3)

PR: CI. Specialized independent study determined by the student's needs and interests. The written contract required by the College of Arts and Sciences specifies the regulations governing independent study. May be repeated. (S/U only)

CHM 4932 SELECTED TOPICS IN CHEMISTRY (1-3)

PR: CI. The course content will depend on the interest of faculty members and student demand. Recent topics include: Chemical Archaeology, Applied Spectroscopy, NMR, Toxic Substances, and Computers in Chemistry.

CHM 4970 UNDERGRADUATE RESEARCH (1-3)

PR: CI.

CHM 5225 INTERMEDIATE ORGANIC CHEMISTRY (3)

PR: CHM 2211, CHM 2211L, or equivalent. This course will extend organic chemistry beyond the undergraduate level and will emphasize concepts of stereochemistry and reaction mechanisms.

CHM 5226 INTERMEDIATE ORGANIC CHEMISTRY II (3)

PR: CHM 5225 or CI. An introduction to synthetic organic chemistry for graduate students and advanced undergraduates. Lec. Semester II.

CHM 5425 APPLICATIONS IN PHYSICAL CHEMISTRY (3)

PR: CHM 4411, CHM 4412 or equivalent. Applications of chemical theory to chemical systems.

CHM 5452 POLYMER CHEMISTRY (3)

PR: Either CHM 2211, CHM 2211L, and CHM 3400 or CHM 4410 or graduate standing. Fundamentals of polymer synthesis, structure, properties, and characterization.

CHM 5621 PRINCIPLES OF INORGANIC CHEMISTRY (3)

PR: CHM 4411 or CI. Chemical forces, reactivity, periodicity, and literature in inorganic chemistry; basic core course.

CHM 5931 SPECIAL TOPICS IN CHEMISTRY (1-3)

PR: CI. The following courses are representative of those that are taught under this title: Natural Products, Stereochemistry, Reactive Intermediates, Photochemistry, Instrumental Electronics, Advanced Lab Techniques, Heterocyclic Chemistry, etc.

CHS 4100C NUCLEAR CHEMISTRY (3)

PR: CHM 3120C. Theory and application of natural and induced radioactivity. Emphasis on the production, properties, measurement, and uses of radioactive tracers. Lec.-lab.

CHS 4300 FUNDAMENTALS OF CLINICAL CHEMISTRY (3)

PR: BCH 3033. Theoretical and practical aspects of the analysis of various body fluids, with emphasis on the medical significance. Clinical chemistry majors must take CHS 4301L concurrently. Lec.

CHS 4301L CLINICAL LABORATORY (2)

PR: BCH 3033 and CI, CHM 3120C. Laboratory experiment in some of the most important clinical determinations. CHS 4300 must be taken concurrently. Lec.-lab.

CHS 4320 CLINICAL CHEMISTRY PRACTICE (2-12)

PR: CI. Laboratory practice in clinical chemistry laboratories in the Tampa Bay area. (S/U only)

CHS 4310C INSTRUMENTAL ANALYSIS (4)

PR: CHM 4412 or CI. Theory and practice of instrumental methods of chemical analysis. Lec.-lab.

Communication

COM 2000 INTRODUCTION TO COMMUNICATION -SS (3)

Introduction to the roles, contexts, and issues in contemporary human communication. Required of Communication majors.

COM 3014 COMMUNICATION, GENDER AND IDENTITY (3)

Examines the communicative origins and implications of gender roles.

COM 3110 COMMUNICATION FOR BUSINESS AND THE PROFESSIONS (3)

Identification of communication situations specific to business and the professions. Analysis of variables related to communication objectives and preparation of oral presentations in the form of informational reports, conference management, persuasive communications, interviews, and public hearings. Note: For non-majors only.

COM 3120 INTRODUCTION TO COMMUNICATION THEORY IN ORGANIZATIONS (3)

PR: majors, COM 2000 or CI; non-majors, COM 3122 or COM 3110 or CI. A survey of communication concepts which impact upon organizational effectiveness.

COM 3122 INTERVIEW COMMUNICATION (3)

PR: CI. Communication theory relative to interview situations with emphasis on the employment interview, appraisal interview, and persuasive interview. Students must sign up for a one-hour lab and the lecture.

COM 3122L INTERVIEW COMMUNICATION LAB (0)

Interview laboratory for practice and individual consultation. Students must take this course in conjunction with the lecture COM 3122. Open to majors and non-majors. Not repeatable.

COM 4020 COMMUNICATING ILLNESS, GRIEF, AND LOSS -6A (3)

PR: Junior/Senior standing or CI. Focus on stories of illness, grief, and loss to make sense of these experiences;
to understand the cultural and rhetorical influences on how stories are told and to explore the context of everyday life, romantic relationship, families, institutions, and culture in which they occur.

**COM 4022 HEALTH COMMUNICATION** (3)
Health Communication explores communication issues relevant to health, disease, and illness. Topics covered include the role of language, patient-provider interpersonal communication, information processing, public health campaigns, and mass media in shaping individual and public understanding of health and disease.

**COM 4030 WOMEN AND COMMUNICATION -6A -XMW** (3)
Examines women's patterns of communication in a variety of contexts.

**COM 4124 COMMUNICATION AND ORGANIZATIONAL CHANGE** (3)
PR: COM 3120 or CI. An advanced course covering current issues in organizational transformation (e.g., organizational dialogue, learning organizations, reengineering, work teams), and the role communication processes play in such changes.

**COM 4710 WRITING LIVES -6A** (3)
PR: Junior/Senior standing or CI. Emphasizes writing stories about our lives and the lives of others as a way to understand, cope with, and communicate social experiences.

**COM 4942 COMMUNICATION INTERN SEMINAR** (3)
PR: Communication major, minimum GPA 3.0, 75 hours completed, 15 hours of core requirements and 9 elective hours completed, and CI. Seminar provides students with an opportunity to put into practice concepts and skills acquired in their study of communication. Weekly seminar sessions augment intern experience. Application for seminar must be submitted one semester prior to seminar offering. Repeatable to maximum 6 credit hours, including first registration.

**COM 5930 TOPICS IN COMMUNICATION STUDIES** (3)
Topical issues in communication. Rpt. up to 12 hours as topics vary.

**ORI 2000 INTRODUCTION TO COMMUNICATION AS PERFORMANCE** (3)
Designed to develop proficiency in the understanding and oral communication of literary and other written materials.

**ORI 3950 COMMUNICATION AS PERFORMANCE LAB** (1-3)
PR: ORI 2000 or CI. The study, rehearsal, and performance of literature for Readers Theatre and Chamber Theatre productions. May be repeated (maximum total six hours).

**ORI 4120 PERFORMANCE OF POETRY** (3)
PR: ORI 2000 or CI. Critical appreciation of lyric and narrative poetry and communication of that appreciation to audience. Study of poetic theory and prosodic techniques.

**ORI 4310 GROUP PERFORMANCE OF LITERATURE** (3)
PR: ORI 2000 or CI. Designed to introduce the student to and give experience in various forms of group approaches to performance.

**ORI 4931 PERFORMANCE AND VIDEO** (3)
PR: ORI 2000. CR: ORI 3950. This course features adaptation, direction, and performance of literature for video productions.

**ORI 5930 TOPICS IN PERFORMANCE GENRES** (3)
Variable topics course. Rpt. up to 12 hours as topics change.

**SPC 2600 PUBLIC SPEAKING -SS** (3)
The nature and basic principles of human communication; emphasis on improving speaking and listening skills common to all forms of oral communication through a variety of experience in public discourse.

**SPC 2541 PERSUASION -SS** (3)
Examines the role of persuasion in public and social life. Students will be introduced to key concepts and theories of persuasion from a variety of historical and contemporary perspectives. Students will use these concepts to create, analyze, and respond to persuasive messages.

**SPC 3212 COMMUNICATION THEORY** (3)
PR: Junior standing or CI. The study of source, message, and receiver variables in human communication; communication settings; description and predictive models of communication; communication as a process.

**SPC 3230 RHETORICAL THEORY -HP** (3)
This course surveys the foundations and historical evolution of major concepts, issues, theorists, and approaches to the study of rhetoric from Plato to recent contemporary theorists.

**SPC 3301 INTERPERSONAL COMMUNICATION -SS** (3)
A study of interpersonal communication in informally structured settings with emphasis on the understanding, description, and analysis of human communication.

**SPC 3425 GROUP COMMUNICATION -6A** (3)
PR: Junior standing or CI. A survey of theory and research in group communication. Group discussions and communication exercises to increase awareness of the dynamics of human communication in small group settings.

**SPC 3513 ARGUMENTATION AND DEBATE** (3)
PR: Junior standing or CI. Study of principles of argumentation as applied in oral discourse, analysis of evidence and modes of reasoning. Practice in debate preparation and delivery.

**SPC 3601 ADVANCED PUBLIC SPEAKING** (3)
PR: SPC 2600 or CI. Study and application of communication strategies in writing and extemporaneously and from manuscript. The course includes study of selected public addresses as aids to increased understanding of speaking skills.

**SPC 3631 RHETORIC OF THE SIXTIES -HP** (3)
Survey of the rhetoric associated with the civil rights movement, the Great Society, the anti-Vietnam War movement, the counterculture, the black power movement, and the women's movement.

**SPC 3653 POPULAR FORMS OF PUBLIC COMMUNICATION** (3)
PR: Junior standing or CI. Analysis of public communication with emphasis on various pre- and post-representational forms.

**SPC 3680 RHETORICAL ANALYSIS** (3)
This course introduces students to fundamentals of message analysis. Student examines persuasive strategies and language in oral and written discourse (not repeatable).

**SPC 3710 COMMUNICATION AND CULTURAL DIVERSITY -SS** (3)
Examination of communication and cultural diversity within the United States. Cultural groups include racial and ethnic (e.g., African American, Latino American, Asian American), social class, age and generational, religious (e.g., Jewish) and gender. (Also offered under Africana Studies.)

**SPC 4201 ORAL TRADITION -XMW** (3)
Study of orality, its forms, functions, and transformations, in traditional and literate societies from folkloric and psychological traditions and from contemporary communication and cultural studies perspectives.

**SPC 4305 COMMUNICATING EMOTIONS -6A** (3)
PR: Junior/Senior standing or CI. Study of emotional experience, what emotions mean to us, how we talk about them, and the ways group and cultural membership influence them. Focus on attachment and loss in romantic, family and group relationships.

**SPC 4310 RELATIONSHIPS ON FILM** (3)
Examination of the ways in which cinema inscribes conceptions and meanings of romance, love, intimacy and sexuality. Focus on systems of interpretation fostered by cinema representations of intimacy, sexuality, emotionality, subjectivity, and betrayal.

**SPC 4431 FAMILY COMMUNICATION** (3)
Examines the processes and functions of communication in the development of families. Examination of scholarly and popular literature on family structure, family systems, family development, and family stories. Analysis of families in fiction and cinema.

**SPC 4632 RHETORIC OF SOCIAL CHANGE** (3)
PR: SPC 3230 or SPC 3681. This course examines how social change is symbolized and motivated in the rhetorics
of institutions, campaigns, social movements and individuals.

**SPA 4050 INTRODUCTION TO THE CLINICAL DISORDERS (3)**

PR: SPA 3004 and SPA 3310. Observation and participation in deaf assessment techniques, and interpreting skills relating to learning processes. This course is restricted to majors only.

**SPA 3303 OVERVIEW OF LANGUAGE LEARNING IN DEAF CHILDREN (3)**

PR: Admission to ISI Program. CR: SPA 3003. An exploration and overview of communication modes and language used in public school settings by deaf children. Includes a study of how systems overlap and a development of flexibility in using different modes and languages, and the implications for interpreters. This course is restricted to majors only. This course may be repeated for up to 2 credits.

**SPA 3304 INTRODUCTION TO LANGUAGE DEVELOPMENT AND DISORDERS (3)**

PR: SPA 3002, SPA 3112 or CI. This course introduces theoretical concepts and research findings concerning the normal developmental processes of language learning as a basis for differentiating developmental delay or disorders of language.

**SPA 3310 INTRODUCTION TO SPEECH SCIENCE (3)**

PR: SPA 3101, SPA 3112 & SPA 3303. Concentrated study of the acoustic, physiological and perceptual aspects of sound as related to normal and pathological speech communication. Introduction to instrumentation and measurement procedures.

**SPA 3312 APPLIED PHONETICS IN COMMUNICATION DISORDERS (3)**

PR: Junior standing and CI. Introduction to phonetic analysis of normal and disordered speech, including extensive training in transcription using the International Phonetic Alphabet.

**SPA 3330 INTRODUCTION TO DISORDERS OF HEARING (3)**

PR: SPA 3303 and SPA 3101. The etiology, pathology, and management of disorders of the outer ear, middle ear, inner ear, retrocochlear, and central auditory systems.

**SPA 4000 COMMUNICATION DISORDERS IN THE PUBLIC SCHOOLS (3)**

PR: CI. An examination of the speech, language and hearing problems affecting school-age children and the classroom teacher's role in the detection, prevention and amelioration of communication disorders. (Non-major course only).

**SPA 4050 INTRODUCTION TO THE CLINICAL PROCESS (3)**

PR: SPA 3004 and SPA 3310. Observation and participation in speech-language pathology and audiology practice in the University clinical laboratory.
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
<th>Prerequisites</th>
</tr>
</thead>
<tbody>
<tr>
<td>SPA 4201</td>
<td>PHONOLOGICAL DEVELOPMENT AND DISORDERS</td>
<td>(3)</td>
<td>PR: SPA 3004 &amp; SPA 3011. An examination of normal and deviant articulatory acquisition and behavior. Presentation of major theoretical orientations and the therapeutic principles based upon them.</td>
</tr>
<tr>
<td>SPA 4382</td>
<td>INTERMEDIATE AMERICAN SIGN LANGUAGE</td>
<td>(4)</td>
<td>PR: SPA 3011 and SPA 3310. A comprehensive study of the medical and physical aspects of voice disorders. Primary emphasis is on therapeutic management.</td>
</tr>
<tr>
<td>SPA 4222</td>
<td>FLUENCY DISORDERS</td>
<td>(3)</td>
<td>PR: SPA 4201. A comprehensive study of disfluent speech behavior. Differential diagnosis, principles of therapeutic intervention, procedures for children and adults will be studied. Major theories and models of the development and origin of stuttering are also presented.</td>
</tr>
<tr>
<td>SPA 4383</td>
<td>NATURE AND NEEDS OF THE DEAF AND HARD OF HEARING</td>
<td>(3)</td>
<td>PR: CI. A concentrated study of technique in fingerspelling emphasizing clarity and rhythm in expression as well as receptive understanding.</td>
</tr>
<tr>
<td>SPA 4332</td>
<td>STRUCTURE OF SIGN LANGUAGE</td>
<td>(3)</td>
<td>PR: SPA 4383 and CI. Semiotic and linguistic consideration of American Sign Language (ASL). Includes aspects of phonology, syntax, semantics, and discourse in ASL.</td>
</tr>
<tr>
<td>SPA 4335</td>
<td>SIGN LANGUAGE CODES</td>
<td>(3)</td>
<td>PR: CI. A review of the sign systems (SEE I, SEE II, L.O.V.E., and Signed English) used to code messages through the use of sign. The student will have the opportunity to practice one of the sign systems.</td>
</tr>
<tr>
<td>SPA 4382</td>
<td>INTERMEDIATE AMERICAN SIGN LANGUAGE</td>
<td>(4)</td>
<td>PR: SPA 3380 and CI. A continuation of the basic course which expands the student's signing skills and introduces American Sign Language (ASL) idioms. Provides a greater opportunity for skill development in ASL structure and idiomatic usage. One hour laboratory course work is included.</td>
</tr>
<tr>
<td>SPA 4371</td>
<td>LEGAL, ETHICAL, AND TECHNICAL ISSUES OF WORKING WITH DEAF</td>
<td>(3)</td>
<td>PR: Admission to ISI Program. This course provides the discussion of ethical, technical, procedural, communicative, as well as legal issues and activities that apply to practice of interpreting in educational situations. It focuses on the professionalism and integration of interpreter roles in educational settings. This course is restricted to majors.</td>
</tr>
<tr>
<td>SPA 4383</td>
<td>ADVANCED AMERICAN SIGN LANGUAGE</td>
<td>(4)</td>
<td>PR: SPA 4382 and CI. A continuation of the study of American Sign Language (ASL) at the advanced skill level. Added emphasis on idioms, body language, and facial expression as an integral part of ASL. One hour laboratory course work is included. Open to all majors.</td>
</tr>
<tr>
<td>SPA 4383L</td>
<td>AMERICAN SIGN LANGUAGE LABORATORY</td>
<td>(1)</td>
<td>PR: CI. Laboratory course designed to offer students added practice with the material presented in the ASL coursework through video and audio tapes.</td>
</tr>
<tr>
<td>SPA 4386</td>
<td>INTERPRETING IN PUBLIC SCHOOLS I</td>
<td>(3)</td>
<td>PR: Admission to ISI Program. CR: SPA 4386L. This course provides techniques for interpreting instructional/ non-instructional activities and the development of communication modes and languages used by deaf children. Includes interpreting practices and understanding teaching methods. This course is restricted to majors only.</td>
</tr>
<tr>
<td>SPA 4386L</td>
<td>INTERPRETING IN PUBLIC SCHOOLS I LAB</td>
<td>(1)</td>
<td>PR: Admission to ISI Program. CR: SPA 4386. This course provides practical application of interpreting the subjects taught in the public school classes. Discussion includes class goals, instructional style, interpreter roles and ethics, language or mode choice, and analysis of the classroom for accessibility and appropriateness for interpreting. This course is restricted to majors only. May be repeated up to 2 credits.</td>
</tr>
<tr>
<td>SPA 4387</td>
<td>INTERPRETING IN PUBLIC SCHOOLS II</td>
<td>(3)</td>
<td>PR: SPA 4386, SPA 4386L. CR: SPA 4387L. This course provides advanced techniques for interpreting instructional/ non-instructional activities and the development of communication modes and languages used by deaf children. Includes interpreting practices and understanding teaching methods. This course is restricted to majors only.</td>
</tr>
<tr>
<td>SPA 4503</td>
<td>PRACTICUM: INTERPRETING IN SCHOOLS</td>
<td>(4)</td>
<td>PR: CI. This course provides practice sessions in school settings under supervision of an experienced interpreter and course instructor. Each practicum student will shadow an interpreter, and participate in discussion about the overall performance. This course is restricted to majors.</td>
</tr>
<tr>
<td>SPA 4562</td>
<td>COUNSELING OF COMMUNICABLY HANDICAPPED AND FAMILY</td>
<td>(3)</td>
<td>PR: SPA 3011 and SPA 3310. Discussion of role of counseling in the treatment of communication disorders. Based on exploration of theoretical constructs, this course demonstrates applications of therapeutic methodologies to reduction of communication handicaps.</td>
</tr>
<tr>
<td>SPA 4930</td>
<td>SELECTED TOPICS</td>
<td>(3)</td>
<td>PR: CI. Intensive study of topics in Speech-Language Pathology, Audiology, and/or Aural Rehabilitation conducted under the supervision of a faculty member.</td>
</tr>
<tr>
<td>SPA 5132</td>
<td>AUDIOLOGY INSTRUMENTATION</td>
<td>(2)</td>
<td>PR: CI. Calibration, usage and specific applications of specialized instruments available in dealing with the identification and measurement of hearing disorders.</td>
</tr>
<tr>
<td>SPA 5150</td>
<td>ADVANCED SPEECH SCIENCE</td>
<td>(3)</td>
<td>PR: SPA 3011 or equivalent. Advanced study of the acoustics, production and perception of normal and disordered speech.</td>
</tr>
<tr>
<td>SPA 5150L</td>
<td>SPEECH SCIENCE INSTRUMENTATION</td>
<td>(2)</td>
<td>PR: CI or SPA 3011 or equivalent. This course offers experience in the use of speech recording, monitoring and analyzing equipment for the evaluation of normal and disordered voice and speech characteristics.</td>
</tr>
<tr>
<td>SPA 5303</td>
<td>ADVANCED HEARING SCIENCE</td>
<td>(3)</td>
<td>PR: CI. The study of the physiological acoustics of the auditory periphery; the neuroanatomy and electrophysiology of the central auditory system; and psychoacoustic principles as they relate to clinical audiologic measurement paradigms.</td>
</tr>
<tr>
<td>SPA 5312</td>
<td>PERIPHERAL AND CENTRAL AUDITORY TESTS</td>
<td>(4)</td>
<td>PR: CI. The study of behavioral and electrophysiologic clinical tests designed to assess the function of the peripheral and the central auditory system. Tests which incorporate nonspeech stimuli and those which utilize speech stimuli will be included.</td>
</tr>
<tr>
<td>SPA 5328</td>
<td>AURAL REHABILITATION: ADULTS</td>
<td>(3)</td>
<td>PR: CI or SPA 3011 or equivalent. This course is designed to provide information about and strategies for aural rehabilitation intervention with hearing-impaired adults. Topics covered include: speechreading, auditory training, hearing and assistive listening devices.</td>
</tr>
<tr>
<td>SPA 5403</td>
<td>COMMUNICATION DISORDERS: LANGUAGE</td>
<td>(3)</td>
<td>PR: CI. Examination of research and clinical literature pertaining major theoretical orientations pertaining to the etiology, evaluations, and treatment of those factors that hinder or interrupt normal language acquisition or function.</td>
</tr>
<tr>
<td>SPA 5408</td>
<td>LANGUAGE LEARNING IN THE INTESL (4-5-YEAR-OLD)</td>
<td>(3)</td>
<td>PR: CI. Metalinguistic and metacognitive development are linked to the interactional demands of classroom and clinical discourse; observational tools are applied to evaluation and intervention planning.</td>
</tr>
</tbody>
</table>
| SPA 5506    | SPEECH-LANGUAGE PATHOLOGY AND AUDIOLOGY PRACTICUM                           | (1-8)   | PR: CI. Participation in speech-language pathology and...
audiology practicum in the University Communication Disorders Center and selected field settings.

SPA 5552 DIAGNOSTIC PRINCIPLES AND PRACTICES (2)
PR: CI. The evaluation, interpretation and reporting of diagnostic tools and their results in the assessment of speech and language disorders.

Community Experiential Learning

IDS 4910 COMMUNITY RESEARCH (1-4)
PR: CEL approval. Open to all students approved for CEL. To provide students with community related research experience. Repeatable up to 8 credit hours.

IDS 4942 COMMUNITY INTERNSHIP (1-4)
PR: CEL approval. Open to all students approved for CEL. To provide students with community-based internship. S/U only. Repeatable up to 8 credit hours.

IDS 4955 INTERNATIONAL COMMUNITY RESEARCH (1-4)
PR: CEL approval. Open to all students approved for CEL. To provide students with an international community related research experience. Repeatable up to 8 credit hours.

IDS 4956 INTERNATIONAL COMMUNITY INTERNSHIP (1-4)
PR: CEL approval. Open to all students approved for CEL. To provide students with an international community-based internship. S/U only. Repeatable up to 8 credit hours.

Criminology

CCJ 3003 CRIME AND JUSTICE IN AMERICA - SS (4)
This course is a non-technical survey of the nature of crime in the United States and the ways our society seeks to deal with criminal offenders and victims of crime. May be taken by both majors and non-majors for credit, subject to departmental approval for declared majors.

CCJ 3024 SURVEY OF THE CRIMINAL JUSTICE SYSTEM - SS (3)
An introduction to the structure and operation of law enforcement, prosecution, the courts, and corrections. Also included brief coverage of major reported crimes.

CCJ 3204 SUBSTANTIVE CRIMINAL LAW (3)
PR: CCJ 3024. Examines the historical basis of the American criminal law system, the substantive elements of crimes, and court procedures.

CCJ 3621 PATTERNS OF CRIMINAL BEHAVIOR (3)
Reviews the nature and extent of the crime problem. The course will concentrate on major patterns of offender behavior including crimes against the person, property crimes, violent crimes, economic/white collar offenses, syndicated (organized) crimes, consensual crimes, female crime, political crime, and will examine criminal career data.

CCJ 3701 RESEARCH METHODS IN CRIMINAL JUSTICE I (3)
PR: CCJ 3024 or CCJ 3610 or CI. Introduces the student to some of the fundamentals of knowledge-generating processes in criminal justice.

CCJ 4110 AMERICAN LAW ENFORCEMENT SYSTEMS (3)
PR: CCJ 3024 or CCJ 3610 or CI. Provides a comprehensive examination of the American law enforcement system at the federal, state, and local levels and an assessment of career opportunities within the community.

CCJ 4260 ENVIRONMENTAL LAW AND CRIME (3)
PR: CCJ 3024 or CI. The course provides students with an introduction to issues in the area of environmental crime and environmental law. NOTE: Credit for this course may also be awarded through a similar course offered in the Environmental Science and Policy Program.

CCJ 4273 CRIMINAL RIGHTS AND PROCEDURES (3)
PR: CCJ 3024 or CI. Emphasizes the Constitutional issues and rules that are applied and enforced by the courts while processing criminal cases.

CCJ 4282 CORRECTIONAL LAW (3)
PR: CCJ 3024 or CI. The course provides students with an introduction to legal issues in the area of correctional, with an emphasis on civil and criminal liability for correctional staff and administrators and on convicts' rights.

CCJ 4306 AMERICAN CORRECTIONAL SYSTEMS (3)
PR: CCJ 3024 or CCJ 3610 or CI. Analysis of the different treatment philosophies and techniques currently in use in the field, with special attention to experimental and demonstration programs.

CCJ 4316 CORRECTIONAL ADMINISTRATION AND LAW (3)
PR: CCJ 3024 or CI. Provides students with an introduction to legal and administrative issues in both institutional and community correction.

CCJ 4341 ALTERNATIVES TO INCARCERATION (3)
PR: CCJ 3024 or CCJ 3610 or CI. This course explores a variety of alternatives to imprisoning the offender, including probation, parole, diversion, and other community-based intervention and treatment modalities.

CCJ 4341 INTERVENTION TECHNIQUES AND STRATEGIES (3)
PR: CCJ 3024 or CCJ 3610 or CI. Introduces the student to theories and methods underlying treatment modalities currently employed in corrections.

CCJ 4450 CRIMINAL JUSTICE ADMINISTRATION (3)
PR: CCJ 4110 or CCJ 4101 or CI. This course is designed to provide an in-depth examination of both the practical and theoretical aspects of the administration of criminal justice agencies. The major focus will be on law enforcement and correctional agencies.

CCJ 4501 JUVENILE JUSTICE SYSTEM (3)
PR: CCJ 3024 or CCJ 3610 or CI. Provides coverage of the juvenile and familycourts, their clientele, and the complex of human service agencies and facilities that contribute to efforts at juvenile correctional intervention.

CCJ 4511 POLICE AND JUVENILE DELinquency (3)
PR: CCJ 3024 or CI. Focuses on the unique aspects of law enforcement interaction with juveniles and their families. Issues which emerge when working with multi-cultural populations will be discussed. Police efforts at early detection, intervention, and diversion. Interaction with status offenders and children-in-need-of-assistance will be a topic of concern. Community based policing efforts will be analyzed. Gang intervention strategies and school programs such as school resource officers will be discussed.

CCJ 4513 JUVENILE RIGHTS AND PROCEDURES (3)
PR: CCJ 4501 or CI. The course provides students with an introduction to the Juvenile Justice system, particularly with the issues on juveniles' rights as they relate to the juveniles in trouble who are processed through the beginning of the system as well as with the rights and subsequent procedures that juveniles will encounter as they are processed further through the juvenile justice system or possibly transferred to the adult criminal justice system.

CCJ 4550 DEVELOPMENTAL ASPECTS OF JUVENILE DELinquency (3)
PR: CCJ 3610 and CCJ 4501 or CI. Provides the student
with a developmental/life course perspective of the pro-
cess of criminalization, and factors which occur dur-
ing childhood and adolescence and cause juvenile delinquency. This course focuses on the conditions which are critical in shaping the delinquent's behavior during their formative years.

**CCJ 4604 ABNORMAL BEHAVIOR AND CRIMINALITY (3)**
PR: CCJ 3610 or CI. A systematic introduction to the relationship between mental illness and criminality, with focus on psychiatric labeling of deviant behavior and its implications for the handling of the criminal offender.

**CCJ 4652 JUVENILE SUBSTANCE USE (3)**
PR: CCJ 4501 or CI. Focuses on youth and drugs. It will cover such topics as the rates and patterns of the use of different drugs by youths with varying socio-demographic characteristics, the context and effects of use of various drugs, the drugs-crime connection, prevention, early intervention and treatment efforts, and drug use policy.

**ECON 1000 BASIC ECONOMICS (3)**
Survey of economic principles and issues. Scarcity, choice, markets, prices, the monetary system, unemployment, inflation, international trade, and international finance. (No credit after completing ECO 2013/2023.)

**ECON 2013 ECONOMIC PRINCIPLES (MACROECONOMICS) (3)**

**ECON 2935 SELECTED TOPICS IN ECONOMICS (1-3)**
PR: CI. Topics selected by department. May be repeated if topics vary. Not available for credit to upper-level students admitted to the College of Business.

**ECO 3622 AMERICAN ECONOMIC HISTORY (3)**
PR: ECO 2023. Growth and evolution of American economic institutions from Colonial times to the present.

**ECO 3703 INTERNATIONAL ECONOMICS (3)**
PR: ECO 3100 or ECO 3101 with a grade of "C" or better. Role of international trade in the U.S. economy. Gains from trade, balance of payments, exchange rate determination, balance of payments stability.

**ECO 3100 MANAGERIAL ECONOMICS (3)**
PR: ECO 2023. Application of microeconomic theory to problems in business decision making with a special focus on price determination. (May not receive credit for both ECO 3100 and ECO 3101.)

**ECO 3101 INTERMEDIATE PRICE THEORY (3)**
PR: ECO 2013. The price system and allocation of scarce resources between competing uses. (May not receive credit for both ECO 3100 and ECO 3101.)

**ECO 3203 INTERMEDIATE INCOME & MONETARY ANALYSIS (3)**
PR: ECO 3100 and ECO 3101 or ECO 3101 with a grade of "C" or better. Determination of income, employment, prices, and interest rates. Aggregate demand and aggregate supply.

**ECO 3622 AMERICAN ECONOMIC HISTORY (3)**
PR: ECO 2023. Growth and evolution of American economic institutions from Colonial times to the present.

**ECO 3703 INTERNATIONAL ECONOMICS -XMW (3)**
PR: ECO 3100 or ECO 3101 with a grade of "C" or better. Role of international trade in the U.S. economy. Gains from trade, balance of payments, exchange rate determination, balance of payments stability, and international commercial policy.

**ECO 4105 ADVANCED PRICE THEORY (3)**
PR: ECO 3100 or ECO 3101 with a grade of "B" or better. An advanced survey of special topics in microeconomics: borrowing and saving, decision making under uncertainty, markets for capital and labor, game theory, production and exchange efficiency, social welfare, and efficiency consequences of market and non-market allocation.

**ECO 4201 ADVANCED MACROECONOMIC THEORY (3)**
PR: Grade of "B" or better in ECO 3203. An advanced survey of special topics in macroeconomics. Develops and contrasts the neoclassical growth, endogenous growth, real business cycle theory, and new Keynesian models. Relevant empirical studies are presented.

**ECO 4303 HISTORY OF ECONOMIC THOUGHT (3)**
PR: ECO 3100 or ECO 3101 with a grade of "C" or better. Development of economic thought from Plato to Marshall.
ECP 3530 ECONOMICS OF HEALTH (3)
PR: ECO 1000 or ECO 2013 or CI. The Marxist school of thought in economics. Application of Marxist theory to problems of advanced capitalist and socialist societies.

ECP 4401 INTRODUCTION TO MATHEMATICAL ECONOMICS (3)
PR: ECO 2013, QMB 3200, MAC 2233 or MAC 2230, or CI. Mathematical models of optimizing behavior and economic equilibrium.

ECP 4421 INTRODUCTION TO ECONOMETRICS (3)
PR: QMB 3200 with grade of "B" or better or CI. Survey of basic econometric techniques. Regression analysis employed to estimate consumption, investment, demand, cost, and production functions. Examines problems of autocorrelation, heteroscedasticity, multicollinearity, and specification errors.

ECP 4504 PUBLIC FINANCE (3)

ECO 4713 INTERNATIONAL MONETARY RELATIONS (3)
PR: ECO 3203 Advanced analysis of international macroeconomic relationships. Foreign exchange market, international monetary system, and balance of payments.

ECO 4723 INTERNATIONAL COMMERCIAL POLICIES (3)
PR: ECO 3100 or ECO 3101 with a grade of "C" or better. Advanced analysis of international trade theory and commercial policy, international economic integration, and multinational enterprise.

ECO 4905 INDEPENDENT STUDY (1-3)
PR: CI. Specialized independent study determined by the student's needs and interests. May be repeated up to 6 credit hours. (S/U only.)

ECO 4914 INDEPENDENT RESEARCH (1-3)
PR: CI. Individual study contract with instructor and department chairperson required. The research project will be mutually determined by the student and instructor. May be repeated up to 6 hours.

ECO 4935 SELECTED TOPICS IN ECONOMICS (1-3)
PR: CI. Topics to be selected by the instructor or instructors on pertinent economic issues.

ECP 3201 ECONOMICS OF WOMEN AND WORK -XMW (3)
PR: ECO 1000 or ECO 2013 and 2023. Survey of research on women, sex roles, work in the labor market, and the household. Focuses on the economic status of women. Includes historical perspective, examination of the family as an economic unit, changing work roles, and gender differences in occupation and earnings.

ECP 3203 LABOR ECONOMICS (3)
PR: ECO 3100 or ECO 3101 with a grade of "C" or better. Determinants of wage and employment levels; occupational, industrial, and geographical wage differentials; union and public policy effects on labor markets; the economics of discrimination; inflation, and unemployment.

ECP 3302 ENVIRONMENTAL ECONOMICS -XMW (3)
PR: ECO 2023. An economic analysis of environmental issues. The economics of resource use and pollution control are examined using the concepts of externalities, cost-benefit analysis, public goods, and property rights.

ECP 3413 ECONOMICS OF REGULATION AND ANTITRUST (3)
PR: ECO 2023. Economic analysis of the rationale and performance of government regulation and antitrust policy. Examination of antitrust issues such as price fixing, mergers, and monopolization, and issues of regulating electric utilities, airlines, trucking, consumer product safety, product quality, and the environment.

ECP 3501 ECONOMICS OF HEALTH (3)
PR: ECO 3100 or ECO 3101 with a grade of "C" or better. Application of economic methods to health care topics. Demand for medical care, public and private health insurance; physician and hospital supply of medical care; government regulations and national healthcare systems.

ECP 3613 ECONOMICS OF THE URBAN ENVIRONMENT (3)

ECP 4232 COLLECTIVE BARGAINING AND PUBLIC POLICY (3)
PR: ECO 2023 or CI. Administration of labor management agreements. Impact of the government role in collective bargaining and labor relations.

ECP 4451 LAW AND ECONOMICS (3)
PR: ECO 2023. Advanced analysis of the economic impact of tort, criminal, property, and contract law as well as the formation and adjudication of law.

ECP 4506 ECONOMICS OF CRIME (3)
PR: ECO 3100. Application of economic theory to the analyses of criminal behavior, crime prevention, law enforcement, sanctions, and corrections.

ECS 3013 ECONOMIC DEVELOPMENT (3)
PR: ECO 2013 or CI. Economic development in emerging nations.

ECS 3930 COMPARATIVE ECONOMIC SYSTEMS -XMW (3)
PR: ECO 1000, ECO 2013 or CI. The major economic systems: traditional, capitalism, democratic socialism, communism, and fascism.

English

AML 3031 AMERICAN LITERATURE FROM THE BEGINNINGS TO 1860 (3)
A study of representative works from the period of early settlement through American Romanticism, with emphasis on such writers as Cooper, Irving, Bryant, Hawthorne, Emerson, Melville, Thoreau, and Poe, among others.

AML 3032 AMERICAN LITERATURE FROM 1860 TO 1912 (3)
A study of representative works of selected American Realists and early Naturalists, among them Whitman, Dickinson, Twain, James, Howells, Crane, Dreiser, Wharton, Robinson, Dunbar, and Johnson.

AML 3051 AMERICAN LITERATURE FROM 1912-1945 (3)
A study of poetry, drama, and fiction by such writers as Pound, Stein, Fitzgerald, Hemingway, Faulkner, Porter, Toomer, Cummings, Williams, Anderson, Steinbeck, Wright, West, Stevens, Henry Miller, and others.

AML 3453 HISTORICAL PERSPECTIVES IN EARLY AMERICAN LITERATURE -HP (3)
Examines American Literature from the Colonial Period to the Civil War as a manifestation of geographical, political, and intellectual forces. Will not be counted toward the English major.

AML 3604 AFRICAN-AMERICAN LITERATURE -6A -XLW (3)
A study of African-American literature from the nineteenth century to the present, including the works of such writers as W.E.B. Dubois, Jean Toomer, Langston Hughes, Richard Wright, Ralph Ellison, LeRoi Jones, and Nikki Giovanni. (Also offered in Africana Studies.)

AML 4111 NINETEENTH-CENTURY AMERICAN NOVEL (3)
A study of the American novel from its beginnings through 1900, including such novelists as Cooper, Hawthorne, Melville, James, Twain, Crane, and Dreiser, among others.

AML 4121 TWENTIETH-CENTURY AMERICAN NOVEL (3)
A study of major trends and influences in American prose fiction from 1900 to the present. Includes works by such writers as Hemingway, London, Wharton, Fitzgerald, Faulkner, West, Mailer, Bellow, Ellison, Donleavy, Updike, Vonnegut, and others.

AML 4261 LITERATURE OF THE SOUTH (3)
A study of the major writers of the "Southern Renaissance," including writers such as Faulkner, Wolfe, Caldwell, Hellman, McCullers, O'Connor, Warren, Styron, Tate, Davidson, and Dickey.

AML 4330 SELECTED AMERICAN AUTHORS (3)
A study of two or three unrelated major authors in American literature; the course may include such writers as Melville and Hawthorne, Hemingway and Faulkner, James and Twain, Pound and Eliot, Stevens and Lowell, etc. Specific topics will vary. May be taken twice for credit with different topics.
CRW 2100 NARRATION AND DESCRIPTION -6A (3)
A study of narrative and descriptive techniques in prose. By making the student sensitive to language usage, it is designed to bridge the gap between expository writing and imaginative writing.

CRW 3111 FORM AND TECHNIQUE OF FICTION -6A (3)
A study of short narrative forms such as the anecdote, tale, character sketch, incident, monologue, epistolary story, and short story as they have been used in the development of fiction and as they exist today.

CRW 3112 FICTION I -6A (3)
PR: CRW 3111. An introduction to fiction writing, beginning with a practical study of the various elements of fiction and proceeding through the many processes of revision to arrive at a completed work of art.

CRW 3121 FICTION II -6A (3)
PR: CRW 3111, CRW 3112. A fiction workshop which provides individual and peer guidance and for the student's writing and which encourages the development of critical skills.

CRW 3311 FORM AND TECHNIQUE OF POETRY (3)
An examination of the techniques employed in fixed forms from the couplet through the sonnet to such various forms as the rondel, ballad, villanelle, sestina, etc. Principles in the narrative, dramatic, and lyric modes are also explored.

CRW 3312 POETRY I (3)
PR: CRW 3311. An introduction to poetry writing utilizing writing exercises employing poetic language and devices; the exercises progress to the writing of both rhymed and unrhymed metrical and non-metrical forms.

CRW 3321 POETRY II (3)
PR: CRW 3311, CRW 3312. A poetry workshop which provides individual and peer guidance for the student's writing and which encourages the development of critical skills.

CRW 4120 FICTION III (3)
PR: CRW 3111, CRW 3112, CRW 3121. An advanced fiction workshop in which works may be carried over from CRW 3121 or longer forms such as the novel may be begun. May be taken twice for credit.

CRW 4320 POETRY III (3)
PR: CRW 3311, CRW 3312, CRW 3321. An advanced poetry workshop in which students are expected to create works exhibiting a firm knowledge of the principles explored in the preceding courses. May be taken twice for credit, preferably under different instructors.

CRW 4930 SELECTED TOPICS IN CREATIVE WRITING (1-4)
PR: 12 hours of CRW courses or CI. The focus of the course will be governed by student demand and instructor interest. Topics to be covered may include writing the literary essay, writing in mixed genres, and utilizing popular conventions in serious works. May be repeated up to 8 credit hours.

ENC 1101, 1102 FRESHMAN ENGLISH - 6A - EC (3,3)
Instruction and practice in the skills of writing and reading. Courses must be taken in numerical sequence.

ENC 1121 FRESHMAN ENGLISH: HONORS - 6A - EC (3)
Honors Section of ENC 1101. Reserved for students in the University's Honors Program.

ENC 1122 FRESHMAN ENGLISH II: HONORS - 6A - EC (3)
PR: ENC 1121. Honors Section of ENC 1102. Reserved for students in the University's Honors Program.

ENC 2210 TECHNICAL WRITING - 6A (3)
Effective presentation of technical and semi-technical information.

ENC 3213 PROFESSIONAL WRITING - 6A (3)
Introduction to the techniques and types of professional writing, including correspondence and reports most often found in business, technical, and scientific communities.

ENC 3310 EXPOSITORY WRITING - 6A (3)
A course teaching the techniques for writing effective prose, excluding fiction, in which student essays are extensively criticized, edited, and discussed in individual sessions with the instructor.

ENC 4260 ADVANCED TECHNICAL WRITING (3)
PR: ENC 2210, or ENC 3310, or CI. Advanced Technical Writing is a course designed to develop writing skills of a higher order: technical exposition; technical narration, description, and argumentation; graphics; proposals; progress reports; physical research reports; and feasibility reports.

ENC 4311 ADVANCED COMPOSITION (3)
PR: ENC 3310 or CI. Instruction and practice in writing effective, lucid, and compelling prose, with special emphasis on style, logical argumentation, and critical thinking.

ENC 4931 SELECTED TOPICS IN PROFESSIONAL AND TECHNICAL WRITING (3)
PR: ENC 3213, ENC 2210, or ENC 3310 or CI. Focus of the course will be determined by student demand and instructor interest. Topics to be covered may include legal writing, the conventions of business writing, and writing for the social sciences. May be repeated with different topics.

ENG 4013 LITERARY CRITICISM (3)
A study of the works of major literary critics from Aristotle to the present, with emphasis on their meaning, their implied world view, and their significance for our own time and literature. Required for Literature majors.

ENG 4060 HISTORY OF THE ENGLISH LANGUAGE (3)
The evolution of language from Anglo-Saxon through Middle English to Modern English. Development of the English lexicon. Changes in the pronunciation, syntactic, and semantic systems; discussion of the forms which influenced them.

ENG 4906 INDIVIDUAL RESEARCH (1-4)
Directed study in special projects. Special permission of chairperson required.

ENG 4907 DIRECTED READING (3)
Readings in special topics.

ENL 3015 BRITISH LITERATURE TO 1616 (3)
A survey of representative prose, poetry, and drama from its beginnings through the Renaissance, including such poems and figures as Beowulf, Chaucer, Malory, More, Hooker, Skelton, Wyatt, Sidney, Spenser, Shakespeare, Donne, and Jonson.

ENL 3230 BRITISH LITERATURE 1616-1780 (3)
A survey of 17th Century and Neoclassical Literature, including such figures as Donne, Herbert, Crashaw, Vaughan, Marvell, Milton, Pope, Swift, Johnson, Boswell, and Goldsmith.

ENL 3231 BRITISH LITERATURE 1780-1900 (3)
The poetry and poetics of the Romantic figures, with attention to the continuing importance of romantic thinking in contemporary affairs and letters; a survey of representative figures of the Victorian and Edwardian periods, including poetry, prose, and drama.

ENL 3273 BRITISH LITERATURE 1900-1945 (3)
Survey of poetry, drama, and fiction of such writers as Eliot, Yeats, Thomas, Conrad, Shaw, Joyce, Lawrence, Huxley, Woolf, Forster, Waugh, Owen, Auden, O'Casey, and others.

ENL 3323 SHAKESPEARE FROM AN HISTORICAL PERSPECTIVE - 6A (3)
An examination of the plays of Shakespeare from Romeo and Juliet to Othello as manifestations of the social, political, and intellectual forces of the time. Lectures will be available on audio tape. Will not be counted toward the English major.

ENL 3331 EARLY SHAKESPEARE (3)
A study of from six to eight of Shakespeare's early comedies, histories, and early tragedies, ending with Hamlet. Special attention to developing the student's ability to read and interpret the text.

ENL 3332 LATE SHAKESPEARE (3)
A study of from six to eight of Shakespeare's problem plays, major tragedies, and late romances. Special attention to developing the student's ability to read and interpret the text.

ENL 4122 BRITISH NOVEL THROUGH HARDY (3)
A study of early and later British novels such as Fielding,
A study in English of the great works of Western Literature through the Renaissance, including the Bible, Homer, Sophocles, Virgil, Cicero, Dante, Petrarch, Machiavelli, and Rabelais, among others.

LIT 3102 LITERATURE OF THE WESTERN WORLD SINCE THE RENAISSANCE - 6A
A study in English of the great works of Western Literature from the Neoclassic to the Modern Period, including such writers as Moliere, Racine, Voltaire, Dostoeyvski, Chekhov, Ibsen, Kafka, Gide, Sartre, and Camus, among others.

LIT 3103 GREAT LITERATURE OF THE WORLD - 6A - XMW - XLW
PR: Junior/Senior standing. A survey of world literature including samples from the ancient and modern era, western and eastern traditions, male and female writers, and various ethnic cultures. Focus on values/ethics, race, ethnicity, and gender; thinking and writing skills. Will not be counted toward the English major.

LIT 3144 MODERN EUROPEAN NOVEL - 6A - HP
A study of the Modern European novel in translation as it developed from the nineteenth century to the present, including such writers as Dostoeyvski, Flaubert, Kafka, Hesse, Camus, and Solzhenitsyn.

LIT 3155 TWENTIETH CENTURY LITERATURE - HP
Examines major literary works of the 20th Century in translation. Will not be counted toward the English major.

LIT 3301 CULTURAL STUDIES AND THE POPULAR ARTS - 6A - XMW - XLW
A study of twentieth century culture as it is represented in film, fiction, and other cultural artifacts. Will not be counted toward the English major.

LIT 3346 THE BIBLE AS LITERATURE - XMW
Major emphasis on literary types, literary personalities of the Old and New Testaments, and Biblical archetypes of British and American literary classics. Fall Semester, Old Testament; Spring Semester, New Testament. Course may be repeated for credit with change of content; may be counted only once toward the English major.

LIT 3353 THE IMAGE OF WOMEN IN LITERATURE - 6A - XMW - XLW
A study that seeks to trace the origins of contemporary views about women, to analyze major Eastern/Western literary portrayals of women, to examine ideas about women’s roles, and to compare/contrast cultural/racial images of women.

LIT 3410 RELIGIOUS AND EXISTENTIAL THEMES
Theological and philosophical ideas, allusions, and symbols in the writings of Dostoeyvski, Nietzsche, Mann, Joyce, Eliot, Camus, Sartre, among others.

LIT 3451 LITERATURE AND THE OCCULT - 6A - XMW - XLW
An introduction to the occult tradition as a major ingredient in English, Continental, American, and Multicultural literature; analysis of the origins, classifications, and areas of the various magical arts from classical times through the present. Will not be counted toward the English major.

LIT 3909 SURVEY OF POETRY
A chronological sampling of the major poems written in English from the Middle Ages to the present. Recommended as the first literature course in the poetry option.

LIT 4386 BRITISH AND AMERICAN LITERATURE BY WOMEN - 6A - XMW - XLW
Survey of women’s literary tradition in England and America from the seventeenth century to the present. Thematic focus includes self, marriage, sexuality, madness, race, and generations. Will not be counted toward the English major. Will not be counted toward the English major. Will not be counted toward the English major. Writing intensive. Will not be counted toward the English major.

LIT 4804 LITERATURE AS CULTURAL STUDY - XMW
The study of literary text as cultural artifacts and the problematic of that. Literary texts as historical, social, political, psychological, philosophical, religious, etc., documents (or as any one of those). Topics and works vary. Will not be counted toward the English major.
EVR 4921 ENVIRONMENTAL SCIENCE AND POLICY
The purpose of this course is to promote the student's understanding and application of environmental science within a practical organizational context. Contract and project report required. Open to senior majors only. (S/U only.)

Geography
GEO 2000 WORLD REGIONAL GEOGRAPHY -SS -HP -AF (4)
Comparative and analytical analysis of representative regions of the world with emphasis on cultural, political, economic, environmental, and physical diversity.
GEO 3194 REGIONAL GEOGRAPHY (4)
Variable title course to systematically study and compare special regions identified by the instructor.
GEO 3202 GEOGRAPHY OF ANGLO-AMERICA (4)
GEO 3300 GEOGRAPHY OF MIDDLE AMERICA (4)
GEO 3360 GEOGRAPHY OF GULF OF MEXICO (4)
GEO 3405 GEOGRAPHY OF LATIN AMERICA -6A (4)
GEO 3500 GEOGRAPHY OF EUROPE -6A (4)
GEO 3554 GEOGRAPHY OF RUSSIA-EURASIA (4)
GEO 3600 GEOGRAPHY OF AFRICA (4)
GEO 1930 GEOGRAPHY OF CURRENT EVENTS -SS (3)
Application of basic geographic principles of the analysis of contemporary events in various parts of the world.
GEO 2041C MAP INTERPRETATION (3)
Analysis and synthesis of various types of maps and map projections.
GEO 2371 INTRODUCTION TO EARTH SYSTEMS SCIENCE -NS (3)
The application of basic earth system science analysis to environmental problems. Review of impact of human activities on the surface of the earth at local and global scales. For non-majors only.
GEO 3013 INTRODUCTION TO PHYSICAL GEOGRAPHY (4)
CR: GEO 3013L. Principles and concepts of the discipline; maps, earth-sun relationships, weather, climate, soil, water, and landscapes.
GEO 3013L INTRODUCTION TO PHYSICAL GEOGRAPHY LAB (1)
CR: GEO 3013. Laboratory portion of Introduction to Physical Geography (GEO 3013).
GEO 3141C DIGITAL THEMATIC MAPPING (4)
An introduction to the concepts underlying modern, computer-based mapping and to the collection and storage of digital spatial data.
GEO 3164C QUANTITATIVE METHODS (4)
Statistical analysis in geographic research.
GEO 3402 HUMAN GEOGRAPHY (4)
Systematic treatment of humans’ activities and relationships on earth; population, settlement, agriculture, industry, trade, transportation, and political aspects are among the topics considered.
GEO 3602 URBAN GEOGRAPHY (4)
PR: GEO 3402 or CI. Geographic analysis of urban areas; development, site, situation, internal structure, and hinterland are considered.
GEO 351C SELECTED TOPICS (4)
GEO 4114C GEOGRAPHIC TECHNIQUES AND METHODOLOGY (4)
PR: GEO 3141C and GEO 3164C or CI. Selected topics in various geographic techniques and methodologies and their application.
GEO 4140C REMOTE SENSING OF THE ENVIRONMENT (4)
PR: GEO 3141C and GEO 3164C or CI. Analysis of satellite images and aerial photographs for studies of the environment.
GEO 4151C GEOGRAPHIC INFORMATION SYSTEMS (GIS) (4)
PR: GEO 3141C and GEO 3164C or CI. An introduction to the concepts underlying Geographic Information Systems, with an emphasis on the analytical capabilities of such systems in both the raster and vector domains.
GEO 4210 PROCESS GEOMORPHOLOGY (4)
PR: GEO 3013 or GGY 2010 and GEO 3164C or CI. Origin, evolution, and distribution of the landforms of North America.
<table>
<thead>
<tr>
<th>Course Code</th>
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<tbody>
<tr>
<td>GEO 4280C</td>
<td>HYDROLOGY</td>
<td>4</td>
<td>PR: GEO 3013 and GEO 3164C or CI. Hydrologic cycle: precipitation, evapotranspiration, water budget, streamflow, and probability analysis.</td>
</tr>
<tr>
<td>GEO 4340</td>
<td>NATURAL HAZARDS</td>
<td>4</td>
<td>PR: GEO 3013 and GEO 3164C or CI. The impact of hurricanes, tornadoes, earthquakes, sink holes, fires, freezes, and droughts on people; attempts to overcome or avoid these hazards.</td>
</tr>
<tr>
<td>GEO 4372</td>
<td>GLOBAL CONSIDERATION - 6A -XMW</td>
<td>4</td>
<td>PR: GEO 3013 and GEO 3164C or CI. The distribution, exploitation, and conservation of physical and human resources, ecology.</td>
</tr>
<tr>
<td>GEO 4421</td>
<td>CULTURAL GEOGRAPHY</td>
<td>4</td>
<td>PR: GEO 3402 and GEO 3164C or CI. The interrelationships of culture and environment, from earlier times to the present.</td>
</tr>
<tr>
<td>GEO 4444</td>
<td>BIOGEOGRAPHY</td>
<td>4</td>
<td>PR: GEO 3013 and GEO 3164C or CI. Analysis of the present and past distribution of species at an intermediate to large scale.</td>
</tr>
<tr>
<td>GEO 4470</td>
<td>POLITICAL GEOGRAPHY - XMW</td>
<td>4</td>
<td>PR: GEO 3402 and GEO 3164C or CI. The factors underlying political decisions and influencing their outcome; the geographic consequences of these decisions.</td>
</tr>
<tr>
<td>GEO 4502</td>
<td>ECONOMIC GEOGRAPHY</td>
<td>4</td>
<td>PR: GEO 3402 and GEO 3164C or CI. The spatial organization of economic production, consumption, and exchange systems.</td>
</tr>
<tr>
<td>GEO 4604</td>
<td>ADVANCED URBAN GEOGRAPHY - XMW</td>
<td>4</td>
<td>PR: GEO 3402, GEO 3602 and GEO 3164C, or CI. Intensive examination of issues such as economic restructuring and inner-city decline, ghetto formation, gentrification, transportation, and policy-making.</td>
</tr>
<tr>
<td>GEO 4700</td>
<td>TRANSPORTATION GEOGRAPHY</td>
<td>4</td>
<td>PR: GEO 3402 and GEO 3164C or CI. General concepts related to the movement of goods and people, with particular emphasis on spatial interaction principles and urban transportation problems and planning.</td>
</tr>
<tr>
<td>GEO 4900</td>
<td>DIRECTED READING</td>
<td>1-4</td>
<td>PR: 20 hours in geography and CI prior to registration. May be repeated.</td>
</tr>
<tr>
<td>GEO 4910</td>
<td>INDIVIDUAL RESEARCH</td>
<td>1-4</td>
<td>PR: 20 hours in geography and CI prior to registration. May be repeated.</td>
</tr>
<tr>
<td>GEO 5140C</td>
<td>ADVANCED REMOTE SENSING</td>
<td>3</td>
<td>PR: GS or CI, GEO 4140C, GEO 3164C. Study of digital image processing techniques. Topics include filtering techniques, geometric and radiometric normalization, and classification algorithms with emphasis on developing classification algorithms.</td>
</tr>
<tr>
<td>GEO 5263</td>
<td>ADVANCES IN SOILS</td>
<td>3</td>
<td>PR: GEO 4210 or CI. Advanced examination of geomorphic processes and landforms with an emphasis on Florida.</td>
</tr>
<tr>
<td>GEO 5288</td>
<td>HYDROLOGICAL SYSTEMS</td>
<td>3</td>
<td>PR: GEO 4280C or CI. A systematic approach to hydrology using the drainage basin as the fundamental unit of analysis is used to explore form and process, while modeling streamflows.</td>
</tr>
<tr>
<td>GEO 5347</td>
<td>ADVANCES IN NATURAL HAZARDS</td>
<td>3</td>
<td>PR: GEO 4280C or CI. Analysis of natural hazards integrating principles of physical, social, economic, political, and technical factors that affect extreme geophysical events.</td>
</tr>
<tr>
<td>GEO 5475</td>
<td>ADVANCED POLITICAL GEOGRAPHY</td>
<td>3</td>
<td>PR: GEO 4470 or CI. Advanced investigation of geopolitical issues including: the human construction of territoriality, ethnic relations, the making of nations and states, the geopolitics of localities, and environmental policymaking.</td>
</tr>
<tr>
<td>GEO 5545</td>
<td>ADVANCED ECONOMIC GEOGRAPHY</td>
<td>3</td>
<td>PR: GEO 4502 or CI. An intensive examination of issues in economic geography including: regional development and decline, spatial labor market trends, business location analysis, and comparative economic policy.</td>
</tr>
<tr>
<td>GEO 5605</td>
<td>CONTEMPORARY URBAN ISSUES</td>
<td>3</td>
<td>PR: GEO 3602 and GEO 4604 or CI. Advanced survey of urban issues such as: industrial restructuring and urban development, inner-city ethnic relations, the geopolitics of urban governance, and urban culture.</td>
</tr>
<tr>
<td>GEO 5704</td>
<td>ADVANCED TRANSPORTATION GEOGRAPHY</td>
<td>3</td>
<td>PR: GEO 4151C and GEO 4700 or CI. Review of transportation issues and analysis, focusing on modeling and planning for flows of goods and people. Provides a hands-on approach to the use of GIS for such analysis.</td>
</tr>
<tr>
<td>MET 4010C</td>
<td>METEOROLOGY</td>
<td>4</td>
<td>PR: GEO 3013 and GEO 3164C or CI. The earth's atmosphere and its processes; weather forecasting and analysis; instrumentation.</td>
</tr>
<tr>
<td>MET 4052</td>
<td>URBAN AND REGIONAL PLANNING</td>
<td>4</td>
<td>PR: GEO 3602 and GEO 3164C or CI. The geographic foundations of the modern city, metropolitan development, and the trend toward megalopolis. Examined are the political problems of conflicting jurisdictions at the local, county, state, national, and international levels.</td>
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</table>

**Geology**

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<thead>
<tr>
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<tbody>
<tr>
<td>GLY 2010</td>
<td>DYNAMIC EARTH: INTRODUCTION TO PHYSICAL GEOLOGY</td>
<td>3</td>
<td>-NS Study of minerals, rocks, and processes of the earth's crust. Introduction to origin and classification of earth's materials and landforms.</td>
</tr>
<tr>
<td>GLY 2010L</td>
<td>DYNAMIC EARTH LABORATORY</td>
<td>1</td>
<td>PR: GLY 2010 or concurrent registration. Laboratory study of earth materials, landforms, geologic structures, topographic and geologic maps. Lec-lab-field trips. Required for Geology majors; open to non-majors.</td>
</tr>
<tr>
<td>GLY 2030</td>
<td>ENVIRONMENTAL GEOLOGY</td>
<td>3</td>
<td>-NS A first course in geology emphasizing environmental aspects of the earth's crust, such as earthquakes, depletion of the earth's resources, water supply problems, and geologic land use and planning. No credit for students with 2010. May substitute for 2010 for geology majors.</td>
</tr>
<tr>
<td>GLY 2040</td>
<td>ORIGINS: FROM THE BIG BANG TO THE ICE AGE</td>
<td>3</td>
<td>-NS The history of the cosmos, origin of the universe, galaxies, the solar system, and earth, evolution of life, great extinctions including the dinosaurs, evolution of the primates, and the environmental future of the planet. (For both non-science and science majors.</td>
</tr>
<tr>
<td>GLY 2050</td>
<td>SCIENCE, EARTH, AND LIFE</td>
<td>3</td>
<td>-NS The nature, history, and philosophy of science intended primarily for non-science majors. Consideration of science as a way of knowing through examples taken primarily from historical geology and biology (e.g., extinction of the dinosaurs, continental drift, evolution) but also from physics and astronomy. Consideration of social relevance of science. Does not count towards geology major.</td>
</tr>
<tr>
<td>GLY 2100</td>
<td>HISTORY OF THE EARTH AND LIFE</td>
<td>3</td>
<td>-NS A course in geology. Study of the physical and biological history of the earth including evolution of the major groups of organisms; continental drift, and interpretation of ancient environments.</td>
</tr>
<tr>
<td>GLY 2100L</td>
<td>EARTH HISTORY LABORATORY</td>
<td>1</td>
<td>Laboratory study of the history of the earth and life. Required for Geology majors; open to non-majors.</td>
</tr>
<tr>
<td>GLY 2930</td>
<td>SELECTED TOPICS IN GEOLOGY</td>
<td>1-3</td>
<td>-NS Topical courses in geology of general interest. Does not count toward the geology major.</td>
</tr>
<tr>
<td>GLY 3038</td>
<td>EARTH AND ENVIRONMENTAL SYSTEMS</td>
<td>3</td>
<td>This course examines the geology of the earth and the natural environment.</td>
</tr>
</tbody>
</table>
environment, using an earth systems approach that looks at interactions between the lithosphere, hydrosphere, atmosphere, and biosphere. Students will learn general principles of geology, travel world-wide on the internet, and participate in discussions on topics ranging from the scientific method to the latest geologic discoveries. Open University course.

GLY 3200 MINERALOGY (4)
PR: GLY 2010, one year of chemistry, or CI. Principles of crystal chemistry, crystallography and mineralogy with emphasis on common rock-forming minerals. Lec.-lab.

GLY 3400C STRUCTURAL GEOLOGY (4)
PR: 12 hours of geology, MAC 2132 or equivalent or CI. Study of the origin and development of structural features of the earth's crust. Applications of principles of geology, physics, and mathematics to understanding relationships of strata and interpreting structural features. Study of regional tectonics and major structural provinces. Lec.-lab.

GLY 3610C INTRODUCTION TO INVERTEBRATE PALEONTOLOGY (4)
PR: GLY 2100. BSC 2010C or equivalent strongly encouraged as background. Lectures cover principles and applications of paleontology, including biostratigraphy, taphonomy, paleoecology, and comparing micro- and macroevolutionary patterns and processes. Labs survey the invertebrate phyla comprising the bulk of the fossil record.

GLY 3850 GEOLOGY FOR ENGINEERS (3)
PR: Junior standing in College of Engineering or CI. An examination of geologic materials and processes designed for engineering students; classification and properties of earth materials, surface processes, site investigation techniques, applications of geology to the solution of engineering problems. (No credit toward the geology major, or for those with credit for GLY 4010.)

GLY 4045 MOONS, PLANETS AND OTHER EXTRASOLAR SYSTEMS: AN INTRODUCTION TO PLANETARY SCIENCE -XMW (3)
PR: Junior standing. Solar System exploration, from Aristotle to NASA. Modern views on the origins of the meteorites, the Moon, Mars, Venus, and other planetary bodies, and the methods of planetary study. Meteor impacts, their effects, future hazard. Space science as a tool in the study of Earth. Field trips, lectures, Internet exercises.

GLY 4053 THEORIES AND ARGUMENTS ABOUT THE EARTH -XMW (3)
PR: A 2000 level GLY course. Evolution of thought about historical geological controversies including the heliocentric solar systems; shape, size and age of the Earth; geologic time; Ice Ages; faunal succession; global tectonics. Emphasis on geological reasoning.

GLY 4310 PETROLOGY (4)
PR: GLY 3200, CI. The formation of igneous and metamorphic rocks in varying tectonic environments. Emphasis is placed on the identification of igneous and metamorphic rocks in hand specimens and thin sections. Lec.-lab.

GLY 4550 DEPOSITIONAL SYSTEMS (4)
PR: GLY 4552C. Study of modern sedimentary environments and their relationships to one another in order to understand environments preserved in the rock record. Physical, chemical, and biological aspects of terrestrial, transitional, and marine sedimentary environments will be examined in light of their eventual preservation in the stratigraphic record.

GLY 4552C SEDIMENTARY GEOLOGY AND GEOCHEMISTRY (4)
PR: GLY 2010, GLY 3200, and one year of chemistry. A lecture and laboratory class that integrates knowledge of the lithosphere, atmosphere, biosphere, hydrosphere, and cyrosphere to study the sedimentary rock record. Examination of the rock record to solve problems in sedimentary geology.

GLY 4700 GEOMORPHOLOGY (4)
PR: Senior or advanced junior standing and CI. Origin, evolution and distribution of land forms and soils. Dynamics of the earth's surface. Lec.-lab-field trips.

GLY 4730 MARINE GEOLOGY (3)
PR: 12 hours of geology or CI. General survey of the geology of the ocean floor from beaches to ocean trenches including sediments, processes, tectonics and history.

GLY 4734 BEACHES AND COASTAL ENVIRONMENTS -XMW (3)
PR: Junior standing. A comprehensive introduction to the nature of all coastal environments including beaches, dunes, tidal inlets, estuaries, reefs, and river deltas. Emphasis will be on the natural state of these environments and how human activities have and will impact them. Consideration of coastal management policies involving economics, ethics, and environmental law.

GLY 4780 GEOLOGICAL FIELD STUDIES (1-3)
PR: 1 geology course. Lectures and field trip to study modern geologic systems and/or geologic origins of specific regions. Mapping and field description techniques introduced. Topic/destination of trip varies. Trip requires camping and vigorous physical activity. May be repeated up to 9 hours, as destinations vary. Lec. Field trip.

GLY 4805 GEOLOGY AND DEVELOPMENT OF MODERN AFRICA - XMW (3)
An in-depth look at how geology has affected the politics, history and culture of Africa. Units include the Nile and hydropolitics, deserts, and climate, rifting and hominid evolution, and mining and politics. No science prerequisites. Cross listed as AFA 4154.

GLY 4822 INTRODUCTION TO HYDROGEOLOGY (4)
PR: GLY 2010, advanced junior or senior standing, one year each physics and calculus or CI. Ground water flow systems, ground water geology, introduction to numerical and analytical models of ground water flow. Lec.-lab.-field trips.

GLY 4905 INDEPENDENT STUDY (1-3)
PR: CI. Specialized independent study determined by the student's needs and interests. May be repeated. (S/U only)

GLY 4915 UNDERGRADUATE RESEARCH (1-3)
PR: Senior or advanced junior standing and written permission of department prior to registration. Individual experimental investigations with faculty supervision. (S/U only)

GLY 4920 GEOLOGY COLLOQUIUM (1)
PR: Senior standing in Geology. Weekly topical lectures by faculty, graduate students and invited speakers. (S/U only)

GLY 4930 SELECTED TOPICS IN GEOLOGY (1-4)
Each topic is a course under the direction of a faculty member with the content depending on the interests of the students and faculty involved. All areas of geology included. Departmental permission required prior to registration.

GLY 4970 UNDERGRADUATE HONORS THESIS (3)
Open to seniors admitted to the Geology undergraduate honors program. Students will complete an independent research project under supervision of a faculty member, and present results in a senior thesis and a public presentation.

GLY 5572 GEOLOGICAL FIELD EXCURSION (2)
Lectures and 2-3 week field excursion to study regional geology, structural and taphonomic aspects of geologically complex terrain. Mapping and outcrop description techniques are emphasized. Destination of trip varies. Trip requires camping and vigorous physical activity. Lec.-field trip.

GLY 5585 STATISTICAL MODELS IN GEOLOGY (3)
PR: STA 2023 or equivalent or CI. Application of statistical methods to geological problems. Emphasis on sampling plans, nature of geologic distributions, and application of analyses of variance to solving geological problems. Lec.

GLY 5592 SELECTED TOPICS IN GEOLOGY (1-4)
PR: DPR. Senior or advanced junior standing and CI. Each topic is a course under the direction of a faculty member. All areas of geology included.

OCE 2001 INTRODUCTION TO OCEANOGRAPHY -NS (3)
Overview of biological, chemical, geological, and physical oceanography. May substitute for 2010 for geology majors. (Also listed under Marine Science.)
**Gerontology**

**GEY 2000 INTRODUCTION TO GERONTOLOGY -SS** (3)

This course is designed to be an introduction to the study of aging. The aging process is viewed from a multidisciplinary perspective including the biological, psychological, and sociological aspects of aging.

**GEY 3006 COMMUNITY SERVICES FOR OLDER ADULTS** (3)

This class is designed to introduce students to services available to older adults and to careers in the field of aging services. Content includes theoretical and practical issues, as well as exposure to opportunities for service and employment. This course is open to majors and non-majors.

**GEY 3601 PHYSICAL CHANGES AND AGING** (3)

A survey of physical and psychological aspects of aging from middle age through older age. Course emphasis will be on practical aspects of understanding both normal age-related physical change and diseases common in older adults.

**GEY 3625 SOCIOCULTURAL ASPECTS OF AGING -6A** (3)

Consideration of human aging in a broad sociocultural context. Course emphasis will be on historical, philosophic, and demographic aspects of aging; theories of social gerontology, attitudes toward aging and the aged, cross-cultural perspectives on aging, the sociology of retirement, and aging and the community.

**GEY 4322 GERONTOLOGICAL CASE MANAGEMENT** (3)

This course examines the role and function of case management in meeting the needs of older adults. Content includes the elements of case management process, as well as ethical and legal issues. The class is open to majors and non-majors and is cross listed with the Social Work Department.

**GEY 4327 LONG-TERM CARE ADMINISTRATION I** (3)

PR: GEY 2000. A survey of Long Term Care (LTC) environments. Explored are such issues as definitions of LTC, physiological conditions of LTC uses, the institutional setting, the sociopsychological context, and methods of evaluation and intervention.

**GEY 4328 LONG-TERM CARE ADMINISTRATION II** (3)

PR: GEY 4327. Administration of long-term care institutions with emphasis on informed problem solving and decision-making via analysis of the psychosocial and sociocultural environment in the nursing home community, including case studies and actual visits to nursing homes. Course objective is to create efficient and humane living and working conditions in nursing homes. May be taken simultaneously with GEY 4327.

**GEY 4329 LONG-TERM CARE ADMINISTRATION III** (3)

PR: GEY 4327 and 4328. This course will familiarize the student with the basic aspects of nursing home administration through the practical application of management theory and concepts.

**GEY 4340 HOUSING FOR THE ELDERLY** (3)

This course is intended to familiarize students with major issues and aspects of housing for the elderly, including principles of administration of planned housing for the elderly. In addition to classroom activities, field trips will be made to at least three different types of planned housing for the elderly.

**GEY 4350 GERONTOLOGICAL COUNSELING** (3)

An introduction to the study of the major mental health problems of the elderly. Current approaches to counseling the elderly in community and institutional settings are discussed.

**GEY 4600 RESEARCH METHODS IN GERONTOLOGY** (3)

PR: STA 2122 or equivalent. Restricted to Gerontology majors, others by departmental permission. Methods and techniques of social research in gerontology. Design of gerontological studies, collection and analysis of data, interpretation of results, and preparation of reports.

**GEY 4601 PSYCHOLOGY OF AGING** (3)

A comprehensive overview of psychological aspects of aging. Topics will include age-related changes in sensation/perception, cognition, and personality, as well as application to late-life psychopathology. (Also offered under Psychology.)

**GEY 4635 BUSINESS MANAGEMENT IN AN AGING SOCIETY** (3)

This course provides interested students with an interdisciplinary perspective that address both business management and the impact of our aging society on business. Topics include: 1) Basic Gerontological Concepts, 2) Business Management Concepts, 3) Marketing to Older Consumers, 4) Business Careers in Aging, 5) Managing an Older Workforce.

**GEY 4641 DEATH AND DYING** (3)

PR: GEY 2000. A broad overview of the basic concepts and psychosocial issues relating to the meaning of loss and death, the process of death, and the experience of grieving. Health care practices are considered along with community resources.

**GEY 4647 ETHICAL AND LEGAL ISSUES IN AGING** (3)

This course is intended to familiarize and sensitize students with/to major ethical and legal issues and dilemmas in the field of aging and to consider their implications for policies, priorities, and services pertaining to older persons.

**GEY 4900 DIRECTED READINGS** (1-3)

PR: CI. A reading program with topics in gerontology conducted under the supervision of a faculty member.

**GEY 4935 SPECIAL TOPICS IN GERONTOLOGY** (3)

Courses on topics such as preretirement, mental health, human services organization, nursing home administration, the older woman, and elder abuse will be offered.

**GEY 4945 FIELD PLACEMENT** (3-9)

PR: CI. Internship in an agency or community setting. An assignment to an agency or organization, engaged in planning or administering programs for older people if in the BA program (3-6 hours). A full-time assignment to a nursing home in the BS program (9 hours) subject to availability of internship sites approved by the Department of Gerontology.

**GEY 5620 SOCIOLOGICAL ASPECTS OF AGING** (3)

Examines, within a sociological frame of reference, the interrelationships between the aged (or aging) and the structure and function of the social systems and its major institutionalized subsystems.

**GEY 5630 ECONOMICS AND AGING** (3)

Examines basic economic systems as they impact the aged. Emphasis is on applied aspects of economic planning, pensions, insurance, social security, and other support systems.

**GEY 5642 PERSPECTIVES ON DEATH AND DYING** (3)

Study of the various psychological, medical, legal, and religious problems caused by dying and death, and of how individuals and groups have responded in the past and present.

**HUS 4920 THE LIFE CYCLE** (4)

An examination of individuals and the physiological and psychosocial changes which occur during infancy, childhood, adolescence, young adulthood, middle age and old age.

**History**

**AFH 3100 AFRICAN HISTORY TO 1850 -HP -AF** (3)

An outline survey of pre-colonial African history including a prefatory introduction to the use of primary sources (such as archaeology, oral tradition, cultural anthropology, comparative linguistics, documents) in reconstructing the African past. (Also offered under Africana Studies.)

**AFH 3200 AFRICAN HISTORY SINCE 1850 -HP -AF** (3)

Survey of the Colonial and post-colonial history of Africa. Emphasis on the impact of European and other alien influences on the continent, emergence of independent African states, and postindependence problems of nation building and economic development. (Also offered under Africana Studies.)

**AMH 2010, 2020 AMERICAN HISTORY I, II -HP** (3,3)

A history of the United States with attention given to relevant developments in the Western Hemisphere, AMH
### AMH 3110 American Colonial History to 1750 (4)
A study of the evolution of American society from the Age of Reconnaissance to 1750. Focuses on the transformation from colonies to provinces with emphasis on ethnocultural conflict, religion, labor systems, and political culture.

### AMH 3130 The American Revolutionary Era (4)
Emphasis on the causes of the American Revolution, the nature of Constitution-making, and the establishment of the federal system. Examine the significance of nationalism and its responses to the new world’s social, economic and political conditions.

### AMH 3140 The Age of Jefferson (4)
A comprehensive study of American society and political culture from 1789-1828. Focuses on demographic trends, party systems, expansionism, Indian policy, labor, and ethno-cultural conflicts.

### AMH 3160 The Age of Jackson (4)
The United States from 1828-1850, with emphasis on social and political conflict. Consideration of evangelicalism, reform, labor movements, urbanization, and political activity in the antebellum era.

### AMH 3201 The United States, 1877-1914 (4)
A study of the United States from the end of Reconstruction to World War I. Ranging over political, social, and international developments, the course covers industrialization, immigration, unions, reform, feminism, race relations, and American foreign policy.

### AMH 3231 The United States, 1914-1945 (4)
A study of the United States from World War I to the end of World War II. Covering political, social, and international developments, the course examines the lives of Americans, including minorities and women, during prosperity, war, and the Great Depression.

### AMH 3270 The United States, Since 1945 (4)
A study of the U.S. role in the Cold War, in Vietnam, and in the post-Cold War era. It also examines domestic developments such as the consumer culture, protest movements, and the abuses of political power.

### AMH 3421 Early Florida (4)
A history of colonial Florida under the Spanish and English. Florida as a new frontier of discovery, colonization, and imperial conflict; the emergence of Florida within the regional setting.

### AMH 3429 Modern Florida (4)
An historical survey of Florida from the territorial period to the modern era. An examination of the social, political, and economic changes occurring in Florida between 1821 and the 1980s.

### AMH 3500 American Labor History (4)
A study of American workers from the colonial period to the present. Examines the changing nature of work, its effects on workers (including minorities and women), and their responses as expressed in strikes, unions, and political action.

### AMH 3510 U.S. Diplomatic History to 1898 (4)
The development of American Foreign Relations in the Agricultural era.

### AMH 3511 U.S. Diplomatic History in the 20th Century (4)
A history of American Foreign Relations in the Industrial era.

### AMH 3530 Immigration History (4)
A study of the composition and character of the "American" people with emphasis on the period from 1840s to the 1920s. Examines old world backgrounds of immigrants and their responses to the new world’s social, economic and political conditions.

### AMH 3540 United States Military History (4)
A study of American military policy and practices from colonial days to the present. Attention is given both to tactics and to strategy in the unfolding formulation and development of American armed might.

### AMH 3545 War and American Empire (4)
The U.S. evolved in 200 years from 13 colonies to the number one power in the world. To achieve this goal we utilized war to achieve empire. This course will examine the link between American War and empire from the Revolution through Vietnam.

### AMH 3561 American Women I (4)
A study of women in the evolution of American society from European origins to 1877. Women’s roles in the family, economy, politics, wars, and reform movements will be examined. (May also be taken for credit in Women’s Studies.)

### AMH 3562 American Women II (4)
A study of women in the evolution of American society from 1877 to the present. Women’s roles in the family, economy, politics, immigration, wars, religion and reform movements will be examined. (May also be taken for credit in Women’s Studies.)

### AMH 3571 African American History to 1865 (4)
A survey of African American history, with an emphasis on North America to 1865. Topics include pre-colonial Africa, transatlantic slave trade, slavery, and the Civil War. (May also be taken for credit in Africana Studies.)

### AMH 3572 African American History since 1865 (4)
A survey of African American history, with an emphasis on North America, from 1865 to the present. Topics include reconstruction, World War I, World War II, and the Civil Rights Movement. (May also be taken for credit in Africana Studies.)

### AMH 3580 History of Canada (4)
A study of Canadian experience from its French origins through the British conquest to its present multi-racial character. Attention will also be given to the forces of nationalism, separatism, and regionalism.

### ASH 3404 Modern China (4)
04 - 04 - The modern Chinese state, 1842-1949 (4)
Political, economic, and social history of China from the end of the Qing dynasty to the liberation of China. The course covers the evolution of the Chinese state from the 19th century to the present.

### ASH 3501 History of India (4)
A study of the major themes of Indian history from the Indus culture to the present. Emphasis will be given to the Classical, Mogul and British periods as well as the modern independent sub-continent.

### EUH 2011 Ancient History I (3,3,3)
An introduction to ancient history. EUH 2011 treats the ancient Near East and Greece from the origins of civilization to the fall of the Hellenistic kingdoms prior to the conflict with Rome.

### EUH 2012 Ancient History II (3,3,3)
An introduction to ancient history. EUH 2012 deals with Rome through the Regal, Republican, and Imperial periods, from the beginnings of civilization in Italy to the division of the Roman Empire. A.D. 395.

### EUH 2021, 2022 Medieval History I, II (3,3,3)
A thematic survey of the Middle Ages. EUH 2021 deals with the nascent, Christian civilization of Europe, circa 300-1050 A.D.; EUH 2022 treats the mature medieval civilization of Europe, circa 1050-1500.

### EUH 2030, 2031 Modern European History I, II (3,3,3)
A thematic survey of Europe in the modern age. EUH 2030 treats the period from the Renaissance to the French Revolution; EUH 2031, from the French Revolution to the present.
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Euh 3142 Renaissance and Reformation (4)
A history of Europe from the Renaissance to the Thirty Years' War (1400-1618). The cultural, social, and economic characteristics will provide the framework for artistic, philosophical, religious, and political developments.

Euh 3181 Medieval Culture (4)
A survey of thought, culture, and art in the Middle Ages. Medieval attitudes as manifested in literature, art, philosophy, education, and religion; with emphasis upon Medieval man's changing perception of himself and his world.

Euh 3185 Viking History (4)
The role of the Vikings in the shaping of Western history. A comprehensive survey of their institutions, outlook and achievements. Viking expansion into Europe and North America.

Euh 3188 Medieval Society (4)
A study of the daily life and attitudes of the medieval nobleman, peasant, townsman, and the agrarian-urban economy and society which affected their lives.

Euh 3190 Medieval Politics (4)
An inquiry into the nature, distribution, and use of political power during the Middle Ages, in such institutions as feudalism, monarchy, cities, and the church.

Euh 3202 History of 17th and 18th Century Europe (4)
A survey of Europe from the beginning of the Thirty Years' War to the outbreak of the French Revolution. Political and intellectual developments will be assessed in the light of society and the economy.

Euh 3205 History of Nineteenth Century Europe (4)
A comparative study of economic, political, social, and intellectual developments in nineteenth century Europe.

Euh 3206 History of Twentieth Century Europe (4)
A comparative study of economic, political, social, and intellectual developments in twentieth century Europe.

Euh 3401 Classical Greece (4)
A study focusing on the career of Alexander the Great and the Greek and Macedonian conquest of Imperial Persia. Also treated are the great hellenistic kingdoms prior to Rome's conquest of the eastern Mediterranean.

Euh 3412 Roman Republic (4)
A study of the Roman Republic from 509 B.C. to the assassination of Julius Caesar in 44 B.C., with a prelude treating Rome's early development under royal rule. Political growth and change provide the framework for the treatment.

Euh 3413 Roman Empire (4)
A study of Imperial Rome from the assassination of Julius Caesar in 44 B.C. to the death of the emperor Constantine in A.D. 337. Emphasized is Rome's government of a vast Mediterranean empire including much of the near East and Europe.

Euh 3461 German History to 1870 (4)
A political, social, and cultural approach to the history of the Germanies from 1500 through 1870, with emphasis on the Protestant Reformation, the rise of Brandenburg-Prussia, and the unification under Bismarck.

Euh 3462 German History 1870 to Present (4)
A political, social, and cultural approach to the history of the German Empire from 1870 through the 1970's. The nation's two attempts to try for world power status are highlighted, as well as the Weimar Republic, prototype of the embattled democracy.

Euh 3501 British History to 1688 (4)
A study of major developments in British history from the 15th century to 1688.

Euh 3502 British History 1688 to Present (4)
A study of the major themes of British history since the Glorious Revolution, including social, political, and economic developments leading to the creation of the modern demographic welfare state.

Euh 3530 British Empire and Commonwealth (4)
A study of the development of the British Empire from the age of initial expansion overseas to the creation of the multinational commonwealth. Included are examinations of theory and myth of colonialism as well as the literature of imperialism.

Euh 3574 History of Imperial Russia, 1689-1917 (4)
A survey of social, political, economic and cultural development in the Russian Empire from Peter the Great to Nicholas II. Topics include expansion and modernization of the Empire, the culture of the Imperial court, peasant rebellions, social and legal reform, the role of the West, and the collapse of the Romanov dynasty.

Euh 3576 History of the Soviet Union, 1917-1991 (4)
A study of Soviet society under communism from the Revolution to the collapse of the USSR. Topics include the origins and development of revolutionary socialism, the Bolshevik seizure of power, Stalinism and the Great Terror, popular dissent and resistance, the treatment and experience of ethnic minorities, Gorbachev and the dissolution of the Soviet Union.

His 2931 Special Topics (2-4)
This course emphasizes a selected historical problem or issue. A variety of instructional approaches will be taken, and topics may vary.

His 3308 War and Society - XMW (3)
An examination of the ways in which societies have organized themselves for war and how societies are changed by war. Also explores gendered expectations in war, and the changing conduct of war.

His 374 Science and Civilization (4)
A thematic study of the interrelationship of science and society in modern history emphasizing the institutional forms, value structures, and social relations in science as they have developed from the scientific revolution to the present.

His 3938 Issues in History (3)
This course provides an introduction to the discipline of history by examining a specific historical issue and its relation to at least one of the following dimensions: gender, race and ethnicity, international perspectives, environmental perspectives.

His 3930 Special Topics (2-4)
This course is designed to emphasize a selected historical problem or issue that is meaningful and challenging to the student. A variety of instructional approaches will be taken to the material. Topics will be changed each semester.

His 4104 Theory of History (4)
Recommended to be taken during the senior year. Required of all history majors. An analysis of the foundations of historical knowledge and historical methodology. Includes a survey of historical thinking, writing and filmmaking.

His 4900 Directed Reading (1-4)
PR: Cl. Arrangement with instructor prior to registration. Readings in special topics.

His 4920 Colloquium in History (2-4)
Reading and discussion of selected topics in the various fields of history. The subject and scope of inquiry will be determined by the instructor for each section. May be repeated for credit.

His 4936 Pro-Seminar in History - XMW (4)
PR: Cl. Advanced topics in the various fields of history. Emphasis on discussion of assigned readings and on research and writing of a major paper. Required of all history majors. May be repeated up to 12 credit hours.

His 5215 Historical Writing (2)
A course for graduate and advanced undergraduates to combine library, archival and research skills with an examination of various writing styles. Analytic and synthetic skills are stressed in writing articles, reviews and essays.

Lah 2020 Latin American Civilization - HP - AF (3)
An introduction to selected issues, events, and people in...
Latin America from 1492 to the present. Focus on Argentina, Brazil, Chile, Cuba, and Mexico.

LAH 2734 LATIN AMERICAN HISTORY IN FILM -HP - AF (3)
Through the use of films and readings, the course introduces the broad sweep of Latin American history from the pre-Columbian period to today. Emphasis is placed on the social-cultural context to understand the peoples and events that shaped Latin America.

LAH 3130 COLONIAL LATIN AMERICA (4)
A study of the Spanish and Portuguese Colonial empires in the New World from 1492-1830.

LAH 3200 MODERN LATIN AMERICA (4)
A study of the emergence of the Latin American states. The course will examine developments in Latin America during the nineteenth and twentieth centuries. Special attention is given to the Third World character of the region.

LAH 3430 HISTORY OF MEXICO (4)
Mexican history from pre-Columbian cultures to the twentieth century. Emphasis falls on the colonial political economy, social development, the wars of independence, development of the 19th century Mexican state and the Mexican revolution.

LAH 3470 HISTORY OF THE CARIBBEAN (4)
A thematic study of the circum-Caribbean from pre-Columbian cultures to the twentieth century, emphasizing the development of the Caribbean political economy with emphasis on monoculture, plantation society, and colonial/neo-colonial relationships.

LAH 3480 HISTORY OF CUBA (4)
Cuban history from pre-Columbian cultures to the Cuban Revolution. Emphasis on colonization, the sugar economy, the struggles for independence, the political economy of the Republic, and the 20th century revolutionary process.

WST 3210 WOMEN IN WESTERN CIVILIZATION I - 6A - HP (3)
Survey of women in the ancient Near East, ancient Greece, ancient Rome, early Middle Ages. Origins of Western attitudes toward sex roles, female sexuality, relation of power to gender. (May also be taken for credit in Women's Studies.)

WST 3220 WOMEN IN WESTERN CIVILIZATION II - HP (3)
Survey of European women from the late Middle Ages to the twentieth century: examining consequences of historical change for women and men. (May also be taken for credit in Women's Studies.)

Humanities and American Studies

AMS 2030 INTRODUCTION TO AMERICAN STUDIES - SS - HP (3)
An overview of American Studies, the interdisciplinary study of American culture. Analysis of the arts and literature, including music; social issues; popular culture; material culture; cultural diversity; and social change. These approaches will be applied to a specific cultural era.

AMS 2201 COLONIAL AMERICAN CULTURE - HP (4)
An examination of cultural patterns in America as they developed between 1600 and 1780 with an emphasis on the texture of everyday life.

AMS 2212 NINETEENTH-CENTURY AMERICAN CULTURE - HP (3)
An examination of cultural patterns in America from 1815 to 1880 with an emphasis on the texture of everyday life.

AMS 2270 TWENTIETH-CENTURY AMERICAN CULTURE - HP (3)
An examination of cultural patterns in America from 1900 to the present with an emphasis on the texture of everyday life.

AMS 2363 ISSUES IN AMERICAN CIVILIZATION - HP (1-4)
An examination of selected topics such as environmental and the quality of life, sports and American society, popular music, American communities, vigilante tradition, jazz music, role of the family, American success myth, youth in America. Topic varies.

AMS 3001 AMERICAN CULTURE 1880-1915 - 6A - HP (4)
Integration of major aspects of American life between the 1880s and World War I.

AMS 3210 REGIONS OF AMERICA - HP (4)
The pattern of American culture as revealed through an examination of selected writings and other pertinent materials dealing with the American regions. Topic varies. Repeatable up to eight credit hours.

AMS 3230 AMERICA DURING THE TWENTIES AND THIRTIES (4)
Selected interdisciplinary materials are used to examine the relationships among regionalism, nationalism and internationalism during the twenties and thirties. Emphasis is placed on the measure of cultural nationalism attained by the United States during this period.

AMS 3260 AMERICAN CULTURE, 1830-1860 - 6A - HP (4)
Examines the patterns of American culture in the years leading up to the Civil War. Topics include religion and social reform, race relations, and the impact of industrialization.

AMS 3302 ARCHITECTURE AND THE AMERICAN ENVIRONMENT (3)
By means of slides, lectures and discussion the course examines 350 years of American architectural history. Architectural styles, aesthetics and the relation between a building and its social environment are stressed.

AMS 3370 SOUTHERN WOMEN: MYTH AND REALITY - 6A - HP (3)
This course will identify the myths surrounding Southern women, discern their sources and purposes, and contrast them with history. (Also offered under Women's Studies.)

AMS 3601 MATERIAL CULTURE AND AMERICAN SOCIETY - 6A - HP (3)
By means of slides, lectures and student projects, examines connections between artifacts and American cultural attitudes from 17th century to present. Topics include: architecture, furniture, gravestones, toys, and the material subcultures of women, African-Americans and communal societies.

AMS 3700 RACISM IN AMERICAN SOCIETY - SS - HP (3)
An introduction into the causes and effects of racism in American history, literature, art, the media, and folklore. Related concepts of ethnocentrism and class conflict will also be studied. (Also offered under Africana Studies.)

AMS 3930 SELECTED TOPICS IN AMERICAN STUDIES (1-4)
Offerings include Cultural Darwinism in America, America Through Foreign Eyes, and The Female Hero in American Culture.

AMS 4152 FILM IN AMERICAN CULTURE (3)
Surveys the contributions to American culture of major films, studios, directors, stars, theaters, and controversies from the perspectives of genres and styles, critical methodologies and theories. Variable topics such as: series on a region, director, performer, subject, or period of American film history.

AMS 4804 MAJOR IDEAS IN AMERICA - XMW (3)
Investigates the role of one or more influential ideas in American culture, for example: individualism, identity, community, dissent, reform, utopianism, democracy. Emphasizes the critical analysis of a variety of primary texts. Topic varies. May be repeated up to 6 credit hours.

AMS 4910 INDIVIDUAL RESEARCH (1-4)
The content of the course will be governed by student demand and instructor approval. Instructor approval required prior to registration.

AMS 4930 SELECTED TOPICS IN AMERICAN STUDIES (1-4)
Offerings include social implications of American Painting, Technology in Twentieth Century America, American Environmental Problems, Popular Culture in America, American Military Experience, and Labor in America.

AMS 4935 SENIOR SEMINAR IN AMERICAN STUDIES (PR: Senior in American Studies or CI) (4)

AMS 4936 SENIOR SEMINAR IN AMERICAN STUDIES (PR: Senior in American Studies or CI) (4)

AMS 4940 INTERNSHIP IN AMERICAN STUDIES (1-4)
A structured, out-of-class learning experience providing firsthand, practical training in American Studies-related professional careers in the community. May be repeated up to 8 credit hours.
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<tr>
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<td>HUM 2024</td>
<td>THE ARTS -FA</td>
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<td>HUM 2243</td>
<td>STUDIES IN CULTURE: THE RENAISSANCE THROUGH THE TWENTIETH CENTURY -HP</td>
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<td>HUM 3271</td>
<td>EASTERN AND WESTERN CULTURE FROM ANTIQUITY TO 1400 -AF</td>
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<td>HUM 4464</td>
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Note: PR: Sophomore standing or CI.
HUM 4905 DIRECTED STUDY
PR: CI. Specialized individual study determined by the student's needs and interests.

HUM 4930 SELECTED TOPICS IN HUMANITIES
PR: Sophomore standing or CI. This course will deal with a recurrent theme in the arts as, for example, love or death, or will focus on artistic centers such as Renaissance Florence or Paris in the 1920s. Topics will vary; course may be repeated for credit with change of content.

HUM 4931 SEMINAR IN HUMANITIES -6A
PR: Humanities major or CI; Senior standing. Discussion of interdisciplinary humanities. Includes essay.

HUM 4938 MAJOR ISSUES IN THE HUMANITIES -XMW
The study of an important topical issue in the Humanities. Materials representing diverse views relating to that issue will be read, and works of art in different media that have relevance to the debate will be studied. Available to majors and non-majors. May be repeated up to 6 credit hours with change in content.

HUM 4940 INTERNSHIP IN HUMANITIES
A structured, out-of-class learning experience providing firsthand, practical training in Humanities-related professional careers in the community. May be repeated up to 8 credit hours.

HUM 4941 STUDY ON LOCATION
The art of culture will be examined during travel in groups, led by an instructor, to important cities or sites. Monuments, museums, architecture, plays, and/or concerts will be studied. Reading assignments and lectures.

PGY 3000 PHOTOGRAPHY IN AMERICAN CULTURE
A survey of photography as an art and a craft in America since the mid-nineteenth century. Attention devoted to technological innovations, leading personalities, major movements, and memorable icons. Open to majors and non-majors.

Interdisciplinary Social Sciences
ISS 3010 INTRODUCTION TO THE SOCIAL SCIENCES
Views social institutions and issues from perspectives of changing paradigms. Integrates the range of social science fields into a global interdisciplinary vantage.

ISS 3930 SELECTED TOPICS IN THE SOCIAL SCIENCES
Interdisciplinary studies with course content dependent on student demand and instructor's interest. May be repeated as topics vary.

ISS 4162 THE CITY AND URBANIZATION
An interdisciplinary perspective will be used to analyze the emergence of the city, urban revolution and metropolis. Urban planning and governance will be examined in looking at how urban areas deal with social and physical problems.

ISS 4164 URBAN SOCIAL ISSUES: AN INTERDISCIPLINARY APPROACH
This course is designed to examine current metropolitan issues from an interdisciplinary perspective. Topic selection will be within the broad framework of ecology, technological changes, economic conditions, political ideologies, and their impact on changing social patterns.

ISS 4900 DIRECTED READINGS
PR: CI. A supervised program of intensive reading of interdisciplinary materials in areas of specific interest. May be repeated.

ISS 4910 DIRECTED RESEARCH
PR: CI. A supervised program of interdisciplinary research in areas of specific interest. May be repeated.

ISS 4935 SEMINAR IN THE SOCIAL SCIENCES -XMW
PR: Senior standing and ISS 3010 or CI. The seminar which caps the interdisciplinary major. Weds personal curiosity with the application of models to research on relevant social issues.

ISS 4934 SELECTED TOPICS
PR: CI plus senior standing or graduate status. Interdisciplinary studies with course content dependent on student demand and instructor's interest. May be repeated as topics vary.

STA 2122 SOCIAL SCIENCE STATISTICS -6A -QM
This course presents statistics with the view that numbers are a limited, but important aspect of understanding the world. Draws concepts and hypothesis from a wide range of disciplines. Covers topics through bivariate analysis, parametric and non-parametric.

International Studies
AREA STUDIES
Area study courses are multi-disciplinary in nature and deal with one or more countries of a region. Each course combines some measure of political, economic, historical, religious, geographic, anthropological, and sociological analysis in dealing with salient features and current problems. The same course may be repeated, but only when the countries of concentration differ. The regularly offered area study courses are:

AFA 4150 AFRICA AND THE UNITED STATES -SS -HP -AF
ASN 3012 JAPAN TODAY
ASN 3014 CHINA TODAY -AF
ASN 3030 THE MIDDLE EAST -AF
EUS 3000 EUROPE -SS
EUS 3022 RUSSIA -SS -AF
LAS 3010 LATIN AMERICA
ASN 3105 THE PACIFIC CENTURY -SS -HP -AF

INR 1015 WORLD PERSPECTIVE -SS -AF
An interdisciplinary study of the international system, major world regions and problems.

INR 2930 SELECTED TOPICS
International studies with course content dependent on student demand and instructor's interest. For non-majors only. May be repeated as topics vary.

INR 3003 INTRODUCTION TO INTERNATIONAL STUDIES
An interdisciplinary study which stresses methods and analysis. A major portion will focus on the roles which different disciplines play in interpreting the international scene.

INR 3018 WORLD IDEOLOGIES -XMW
A course which details and examines the ideologies of today's independent countries: analyzing them in their political, social, cultural and historical context.

INR 3033 INTERNATIONAL POLITICAL CULTURES -XMW
This course will explore the ways in which culture influences the nature of government, economic success or failure, and constructive and destructive modes of self and social identification.

INR 3038 INTERNATIONAL WEALTH AND POWER -SS
Introduction to the relationship between politics and economics, emphasizing the analysis of government policies in response to both domestic and international economic problems.

INR 3081 INTERNATIONAL ISSUES AND ACTORS
An examination of the most important issues in international affairs. The course analyzes the behavior of major foreign policy actors in the international arena, including nation states, non-governmental and international organizations. Departmental approval required.

INR 3084 INTERNATIONAL TERRORISM -SS -AF
A study of contemporary international terrorism and its causes, ranging from national liberation movements to networks of philosophical anarchists.

INR 3141 GLOBAL SECURITY POLICY
A study of security issues, regional and global (such as proliferation, arms control, arms transfer) as they relate to contemporary international politics.

INR 3202 INTERNATIONAL HUMAN RIGHTS -XMW
This course explores the evolution of international rights from the Greeks to the present. It examines human rights issues in major regions of the world.
INR 3336 INTELLIGENCE AND U.S. FOREIGN POLICY (3)
An examination of the role of intelligence and the intelligence community in U.S. foreign policy, with emphasis on the period since World War II.

INR 3770 COMPARATIVE MILITARY SYSTEMS (3)
A comparative study of ways in which the military institutions of various nations are organized and interact with politics, societies and economies.

INR 3955 OVERSEAS STUDY (1-6)
A program of individual or group research in a foreign country.

INR 4910 DIRECTED RESEARCH (1-3)
A supervised program of interdisciplinary research in areas of specific interest. May be repeated.

INR 4931 SELECTED TOPICS (1-4)
Interdisciplinary studies with course content dependent on student demand and instructor's interest. May be repeated as topics vary.

INR 4936 SENIOR SEMINAR -XMW (3)
PR: International Studies major and senior standing. A variable topics seminar integrating concepts and analyses relating to the academic background of INT majors. Should be taken in the student's final semester.

INR 4943 INTERNSHIP IN INTERNATIONAL STUDIES (3-6)
PR: Senior status. The purpose of the course is to promote the student's understanding of global international issues within a local and practical context. (S/U only.) (For majors only.)

LAS 3004 THE AMERICAS - LATIN AND CARIBBEAN (3)
This is a telecourse that is designed to introduce the complexities of Latin America and the Caribbean to students in the U.S. (Open University - televised course.)

LAS 3116 LATIN AMERICA THROUGH FILM -AF (3)
This course will use film, video, selected readings, and lectures to teach the interested student about Latin America.

WST 3275 WOMEN IN THE DEVELOPING WORLD (3)
A comparative study of women's status in various developing nations with that in various industrialized states. (Also offered under Women's Studies Program.)

Languages and Linguistics

Classics
CLA 3103 GREEK CIVILIZATION -HP (3)
Study of Greek Civilization from its beginning to the Roman period, with emphasis on social customs, political institutions, and daily life.

CLA 3123 ROMAN CIVILIZATION -HP (3)
Study of Ancient Roman Civilization with emphasis on social customs, political institutions, and daily life.

Courses in Translation
CLT 3040 SCIENTIFIC AND MEDICAL TERMINOLOGY (3)
A course in the Greek and Latin word elements used in science and technology.

CLT 3101 GREEK LITERATURE IN TRANSLATION -6A -XMW (3)
Reading and discussion of major works in Greek literature. Special emphasis on the Iliad, the dramatists Aeschylus, Sophocles, Euripides and Aristophanes. Some attention is given to the social and political background of the works. All readings are in English.

CLT 3102 ROMAN LITERATURE IN TRANSLATION -6A -XMW (3)
Reading and discussion of major works in Roman literature. Special emphasis is placed on the Aeneid, comedy and satire. Some attention is given to the political background of the works. All readings are in English.

CLT 3370 CLASSICAL MYTHOLOGY -HP (3)
Study of Greek and Roman myths embodied in classical literature and of their impact on Western civilization. All readings are in English.

General Foreign Languages

FOL 3100 GENERAL FOREIGN LANGUAGE I (1-4)
A general purpose course that may be used for transfer of credit, credit by examination, and similar matters; may also be used for formal courses in less commonly taught languages or in professional translation.

FOL 4101 GENERAL FOREIGN LANGUAGE II (1-3)
A general purpose course that may be used for transfer of credit, credit by examination, and similar matters; may also be used for formal courses in less commonly taught languages or for workshops in professional interpreting.

FOL 4905 DIRECTED STUDY (1-3)
Departmental approval required.

FOL 5906 DIRECTED STUDY (1-3)
PR: FOL 4101 or equivalent.

Arabic

ARA 1120 MODERN ARABIC I (4)
CR: ARA 1120L. An intensive study of basic skills: pronunciation, listening comprehension, speaking and some composition.

ARA 1120L MODERN ARABIC I LABORATORY (1)
CR: ARA 1120. Laboratory designed to offer additional practice using various instructional technologies and media. Concurrent enrollment with lecture session required, and, if dropped, then dropped simultaneously. (S/U only.)

ARA 1121 MODERN ARABIC II (4)
CR: ARA 1120 or its equivalent. CR: ARA 1120L. A continuation of ARA 1120. More sophisticated oral/aural skills are attained. Basic reading skills are acquired.

ARA 1121L MODERN ARABIC II LABORATORY (1)
CR: ARA 1121. A laboratory designed to offer additional practice using various instructional technologies and media. Concurrent enrollment with a lecture session is required, and, if dropped, then dropped simultaneously. (S/U only.)

ARA 2200 MODERN ARABIC III (4)
PR: ARA 1121 or the equivalent. For language students who intend to attain basic proficiency.

ARA 2201 MODERN ARABIC IV (4)
PR: ARA 2200 or the equivalent. Continuation of ARA 2200. Practice of writing, speaking and listening skills for language students who intend to attain basic proficiency.

ARA 4905 DIRECTED STUDY (1-5)
Permits study options in Arabic not available in regularly scheduled curriculum at departmental discretion. Departmental approval required. May be repeated up to 10 credit hours. (S/U only.)

ARA 4930 SELECTED TOPICS (1-5)
Course permits study in Arabic not available in regularly scheduled curriculum at departmental discretion. Departmental approval required. May be repeated up to 10 credit hours.

Chinese

CHI 1120 MODERN CHINESE I (4)
CR: CHI 1120L. Mandarin. An intensive study of basic skills: pronunciation, listening, comprehension, speaking, and some composition.

CHI 1120L MODERN CHINESE I LABORATORY (1)
CR: CHI 1120. A laboratory designed to offer additional
practice using various instructional technologies and media. Concurrent enrollment with a lecture session is required, and, if dropped, then dropped simultaneously. (S/U only.)

**CHI 1121 MODERN CHINESE II** (4)
CR: CHI 1121L. Mandarin. PR: CHI 1120 or equivalent. A continuation of CHI 1120. More sophisticated oral/aural skills are attained. Basic reading skills are acquired.

**CHI 1121L MODERN CHINESE II LABORATORY** (1)
CR: CHI 1121. A laboratory designed to offer additional practice using various instructional technologies and media. Concurrent enrollment with a lecture session is required, and, if dropped, then dropped simultaneously. (S/U only.)

**CHI 2200 MODERN CHINESE III** (4)
PR: CHI 1121 or the equivalent. For language students who intend to attain basic proficiency.

**CHI 2201 MODERN CHINESE IV** (4)
PR: CHI 2200 or the equivalent. Continuation of CHI 2200. Practice of writing, speaking and listening skills for language students who intend to attain basic proficiency.

**CHI 4905 DIRECTED STUDY** (1-5)
Permits study options in Modern Chinese not available in the regularly scheduled curriculum at departmental discretion. Departmental approval required. May be repeated up to 10 credit hours. (S/U only.)

**CHI 4930 SELECTED TOPICS** (1-5)
Course permits classes in Modern Chinese not available in the regularly scheduled curriculum at departmental discretion. Departmental approval required. May be repeated up to 10 credit hours.

**French**

**FRE 1040 FRENCH FOR READING** (3)
Designed to provide a reading ability in French that will support research in other disciplines. Primarily for graduate students.

**FRE 1120 BEGINNING FRENCH I** (4)
CR: FRE 1120L. The first course in the study of elementary French. Emphasis on the development of basic skills in comprehension, speaking and reading.

**FRE 1120L BEGINNING FRENCH I LABORATORY** (1)
CR: FRE 1120. A laboratory designed to offer additional practice using various instructional technologies and media. Concurrent enrollment with a lecture session is required, and, if dropped, then dropped simultaneously. (S/U only.)

**FRE 1121 BEGINNING FRENCH II** (4)
PR: FRE 1120 or equivalent. CR: FRE 1121L. A continuation of FRE 1120.

**FRE 1121L BEGINNING FRENCH II LABORATORY** (1)
CR: FRE 1121. A laboratory designed to offer additional practice using various instructional technologies and media. Concurrent enrollment with a lecture session is required, and, if dropped, then dropped simultaneously. (S/U only.)

**FRE 1170 OVERSEAS STUDY-ELEM. FRENCH** (4)
Elementary-level French taught in France. In lieu of FRE 1120 and FRE 1121. Departmental approval required. May be repeated up to 8 credit hours.

**FRE 2200 FRENCH III** (3)
PR: FRE 1120 or equivalent. A review of the basic structure of French.

**FRE 2201 FRENCH IV** (3)
PR: FRE 2200 or equivalent. Readings in French on the intermediate level.

**FRE 2240 CONVERSATION II** (3)
PR: FRE 2241 or equivalent proficiency. Conversation practice with concentration on current idiomatic usage.

**FRE 2241 CONVERSATION I** (3)
PR: FRE 1121. For development of basic conversational skills.

**FRE 2270 OVERSEAS STUDY-INTR. FRENCH** (1-6)
PR: Two semesters of university-level French or equivalent proficiency. Departmental approval required. May be repeated up to 12 credit hours.

**FRE 3230 READING IN FRENCH LITERATURE & CULTURE** (3)
PR: FRE 2201 or equivalent. This course is designed to build reading skills while giving students a broad background in French culture.

**FRE 3420 COMPOSITION I** (3)
An advanced composition course for students who have completed FRE 2200 and/or 2201.

**FRE 3440 FRENCH FOR BUSINESS** (3)
PR: FRE 2200 or equivalent. An introduction to the French language in ordinary business transactions.

**FRE 3470 OVERSEAS STUDY** (1-6)
An intensive study-travel project in France. Departmental approval required. May be repeated up to 12 credit hours.

**FRE 3500 FRENCH CIVILIZATION** (3)
Readings and discussion on the cultural history of France.

**FRE 4421 COMPOSITION II** (3)
Continuation of French composition. This course is designed to follow FRE 3420.

**FRE 4471 ADVANCED OVERSEAS STUDY** (1-6)
PR: FRE 3470 or CI. Intensive language study in France. Departmental approval required. May be repeated up to 12 credit hours.

**FRE 4700 FRENCH LINGUISTICS** (3)
PR: LIN 3010 and FRE 2201 or equivalent. An introduction to the phonological, morphological and syntactic structure of French.

**FRE 4905 DIRECTED STUDY** (1-3)
Departmental approval required.

**FRE 4930 SELECTED TOPICS** (1-3)
Study of an author, movement or theme.

**FRE 5425 ADVANCED WRITTEN EXPRESSION** (3)
PR: FRE 4421, or equivalent. Course is designed to give advanced training in free composition in French.

**FRE 5566 CONTEMPORARY FRANCE** (3)
PR: FRE 3500 or equivalent or graduate standing. An advanced course in French civilization and culture including a study of recent social, artistic and political trends as well as various current intellectual movements. Text and discussions in French.

**FRW 4100 INTRODUCTION TO FRENCH NOVEL** (3)
PR: FRE 3230, FRE 3420. A study of the history of the novel from its early appearance to present times with emphasis on the 19th and 20th centuries. Authors to be studied include Chretien de Troyes, Rabelais, Balzac, Flaubert, Proust, Camus, Sartre, Robbe-Grillet, and others. Specific content may vary from year to year.

**FRW 4101 INTRODUCTION TO FRENCH DRAMA AND POETRY** (3)
PR: FRE 3230. A study of the history of drama and poetry. Will include medieval drama, Racine, Corneille, Moliere, Anouilh, Sartre, Ionesco and others. Will also include Villon, Ronsard, DuBellay, Lamartine, Hugo, Vigny, Musset, Baudelaire, Mallarme, Rimbaud, Valery, Peguy, Eliard, Apollinaire, Char, and others. Course content may vary from year to year.

**FRW 5222 CLASSICAL PROSE AND POETRY** (3)
PR: FRW 4101. Emphasis on Malherbe, La Fontaine, Boileau, Descartes, and Pascal.

**FRW 5226 THE 20TH CENTURY NOVEL AND THEATRE** (3)

**FRW 5286 THE 20TH CENTURY NOVEL** (3)
PR: FRW 4101. Emphasis on Malherbe, La Fontaine, Boileau, Descartes, and Pascal.

**FRW 5314 CLASSICAL DRAMA** (3)
PR: FRW 4101. Corneille, Moliere, and Racine.

**FRW 5415 LITERATURE OF THE MIDDLE AGES** (3)
PR: FRW 4101 or FRW 4101. Major genres, including epics, Arthurian romances, drama and lyrical poetry. Reading in modern French translation.

**FRW 5425 LITERATURE OF THE RENAISSANCE** (3)
PR: FRW 4100 or FRW 4101. A study of Renaissance French humanism including Rabelais, Montaigne, and Pleiade poets.
GER 5845 HISTORY OF THE GERMAN LANGUAGE (3)  
GER 4421 COMPOSITION II  (3)  
GER 4410 CONVERSATION II  (3)  
GER 3500 GERMAN CIVILIZATION  (3)  
GER 3420 COMPOSITION I  (3)  
GER 2240 CONVERSATION I  (3)  
GER 2201 GERMAN IV  (3)  
GER 2200 GERMAN III  (3)  
GER 1121 BEGINNING GERMAN II  (4)  
GER 1120L BEGINNING GERMAN I LABORATORY (1)  
FRW 5934 SELECTED TOPICS  (1-3)  
FRW 5556 REALISM AND NATURALISM  (3)  
FRW 5445 18TH CENTURY LITERATURE  (3)  
138 COLLEGE OF ARTS AND SCIENCES  
German  
and Baroque, the classical period.  
modern German translation; the literature of Humanism  
Old High German and Middle High German.  
Middle, and New High German.  
GER 2200 INTERMEDIATE CLASSICAL GREEK (4)  
GER 1121 BEGINNING GERMAN II (4)  
GER 1120 BEGINNING GERMAN I (4)  
GRW 5934 SELECTED TOPICS  (1-3)  
Gregor von der Fltom  
M. Siegfried Ruckert  
Jenaer circle and Heidelberg circle; the late romantic  
the writers between Classicism and Romanticism.  
GER 1120 BEGINNING GERMAN I LABORATORY (1)  
GER 1121BEGINNING GERMAN I LABORATORY (1)  
CR: GER 1120L. An intensive study of basic skills; pronun-
ciation, listening comprehension, speaking and some  
composition.  
GER 1120 BEGINNING MODERN GREEK I (4)  
GRE 2200 BEGINNING MODERN GREEK II (4)  
GRE 2200 INTERMEDIATE MODERN GREEK (4)  
GREW 5934 SELECTED TOPICS  (1-3)  
GREW 4101 SURVEY OF GERMAN LITERATURE II (4)  
GREW 4900 DIRECTED STUDY (1-3)  
GREW 4930 SELECTED TOPICS (1-3)  
Study of an author, movement or theme.  
GREW 5475 20TH CENTURY LITERATURE TO 1945 (3)  
GREW 5489 20TH CENTURY LITERATURE: 1945 TO PRESENT (3)  
Study of major trends in German literature since WWII with  
emphasis on Borchert, Frisch, Durrenmatt, Boll, Uwe,  
Johnson, Grass, Aichinger, Eich Enzensberger, Bachmann.  
GREW 5515 THE ENLIGHTMENT (3)  
Selected dramas and critical writings by Lessing, Wieland,  
Kant.  
GREW 5545 ROMANTICISM (3)  
Jenaer circle and Heidelberger circle; the late romantic  
period, the writers between Classicism and Romanticism.  
GREW 5555 REALISM (3)  
Selected works by Grillparzer, Grabbe, Buchner, Hebbel,  
Heine, Immerman, Stifter, Keller, Meyer, Storm, Raabe,  
Hultschoff, and Monike.  
GREW 5605 GOETHE (3)  
Selected novels, poems: Werther, Wahlverwandtschaften,  
Wilhelm Meister, Westöstlicher Divan.  
GREW 5606 FAUST (3)  
Sources, form, content, and literary significance of Urfaust  
and Faust.  
GREW 5615 SCHILLER (3)  
Selected dramas, philosophical and aesthetical writings.  
GREW 5934 SELECTED TOPICS (1-3)  
PR: Upper-level or graduate standing. Study of an author,  
movement or theme.  
Greek (Classical)  
GRE 1120 BEGINNING CLASSICAL GREEK I (4)  
An introductory course in classical Greek grammar with  
appropriate readings.  
GRE 1121 BEGINNING CLASSICAL GREEK II (4)  
An introductory course in classical Greek grammar with appropriate readings.  
GRE 2200 INTERMEDIATE CLASSICAL GREEK (4)  
PR: GRE 1120 or equivalent. Readings in Greek at an  
intermediate level. May be taken concurrently with GRE  
2200.  
GREW 4905 DIRECTED READING (1-4)  
Departmental approval required.  
GREW 5905 DIRECTED READING (1-4)  
Departmental approval required.  
GREW 5934 SELECTED TOPICS  (1-3)  
Study of an author, movement or theme. May be repeated  
up to 12 credit hours.  
Greek (Modern)  
GRK 1120 BEGINNING MODERN GREEK I (4)  
CR: GRK 1120L. An intensive study of basic skills; pronun-
ciation, listening comprehension, speaking and some  
composition.  
GRK 1120L BEGINNING MODERN GREEK I LABORATORY (1)  
CR: GRK 1120. A laboratory designed to offer additional  
practice using various instructional technologies and medi-
a. Concurrent enrollment with a lecture session is re-
quired, and, if dropped, then dropped simultaneously. (S/U  
only.)  
GRK 1121 MODERN GREEK II (4)  
PR: GRK 1120 or its equivalent; CR: GRK 1121L. A  
continuation of GRK 1120. An intensive study of basic  
skills; pronunciation, listening comprehension, speaking  
and some composition.  
GRK 1121L MODERN GREEK II LABORATORY (1)  
CR: GRK 1121. A laboratory designed to offer additional
practice using various instructional technologies and media. Concurrent enrollment with a lecture session is required, and, if dropped, then dropped simultaneously. (S/U only.)

**GRK 2200 MODERN GREEK III**

PR: GRK 1121 or the equivalent. A fundamental composition course for students who have completed ITA 2200. (S/U only.)

**GRK 2200 MODERN GREEK IV**

PR: GRK 2200 or its equivalent. Continuation of GRK 2200. Practice of writing, speaking and listening skills for language students who intend to attain basic proficiency.

**GRK 4905 DIRECTED STUDY**

Permits study options in Modern Greek not available in the regularly scheduled curriculum at departmental discretion. Departmental approval required. May be repeated up to 10 credit hours. (S/U only.)

**GRK 4930 SELECTED TOPICS**

Course permits classes in Modern Greek not available in the regularly scheduled curriculum at departmental discretion. Departmental approval required. May be repeated up to 10 credit hours.

**Hebrew**

**HBR 1121 MODERN HEBREW I**

CR: HBR 1120L. An intensive study of basic skills; pronunciation, listening comprehension, speaking and some composition. Continue to present basic proficiency in Hebrew.

**HBR 1121 MODERN HEBREW II**

CR: HBR 1121. A laboratory designed to offer additional practice using various instructional technologies and media. Concurrent enrollment with a lecture session is required, and, if dropped, then dropped simultaneously. (S/U only.)

**HBR 2200 MODERN HEBREW II**

CR: HBR 1121 or the equivalent. For language students who intend to attain basic proficiency.

**HBR 2201 MODERN HEBREW IV**

PR: HBR 2200 or its equivalent. Continuation of HBR 2200. Practice of writing, speaking and listening skills for language students who intend to attain basic proficiency.

**HBR 4905 DIRECTED STUDY**

Permits study options in Modern Hebrew not available in the regularly scheduled curriculum at departmental discretion. Departmental approval required. May be repeated up to 10 credit hours. (S/U only.)

**HBR 4930 SELECTED TOPICS**

Course permits classes in Modern Hebrew not available in the regularly scheduled curriculum at departmental discretion. Departmental approval required. May be repeated up to 10 credit hours.

**Italian**

**ITA 1120 BEGINNING ITALIAN I**

CR: ITA 1120L. The first course in the study of elementary Italian. Emphasis is on the development of basic skills in comprehension, speaking, and reading.

**ITA 1121 BEGINNING ITALIAN II**

CR: ITA 1121L. The second course in the study of elementary Italian. Emphasis is on the development of basic skills in comprehension, speaking and reading.

**ITA 1121L BEGINNING ITALIAN II LABORATORY**

CR: ITA 1121. A laboratory designed to offer additional practice using various instructional technologies and media. Concurrent enrollment with a lecture session is required, and, if dropped, then dropped simultaneously. (S/U only.)

**ITA 2240 ITALIAN CONVERSATION I**

To develop fluency and correctness in spoken Italian. Intensive study for conversational skills based particularly on the current Italian idiom. Syntax is intensified and the vocabulary and idiomatic expressions expanded.

**ITA 2241 ITALIAN CONVERSATION I**

To assist students who have already made a start in speaking Italian, who have not had the advantages of travel or who have non-Italian speaking parents, to improve their skill in speaking Italian. Current events; literary discussions; free conversation; prepared speeches. Differences of media, syntactical signal.

**ITA 3420 COMPOSITION**

A fundamental composition course for students who have completed ITA 2200. (1-6)

**ITA 3470 OVERSEAS STUDY**

An intensive study-travel project in Italy. Prior approval and early registration required. May be repeated up to 12 credit hours.

**ITW 4100 SURVEY OF ITALIAN LITERATURE I**

A survey of Italian literature from the earliest monuments through the classicism of the 18th century.

**ITW 4101 SURVEY OF ITALIAN LITERATURE II**

A survey of Italian literature beginning with the Classicism of the 18th century and continuing to present.

**ITW 4905 DIRECTED STUDY**

Departmental approval required.

**Japanese**

**JPN 1120 MODERN JAPANESE I**

CR: JPN 1120L. An intensive study of basic skills; pronunciation, listening comprehension, speaking, and some composition.

**JPN 1120 MODERN JAPANESE II**

CR: JPN 1120. A laboratory designed to offer additional practice using various instructional technologies and media. Concurrent enrollment with a lecture session is required, and, if dropped, then dropped simultaneously. (S/U only.)

**JPN 1121 MODERN JAPANESE III**

PR: JPN 1120 or equivalent. CR: JPN 1121L. A continued study to attain basic proficiency in Japanese.

**JPN 1121 MODERN JAPANESE IV**

PR: JPN 1120 or equivalent. CR: JPN 1121. A laboratory designed to offer additional practice using various instructional technologies and media. Concurrent enrollment with a lecture session is required, and, if dropped, then dropped simultaneously. (S/U only.)

**JPN 1121 MODERN JAPANESE III**

CR: JPN 1121. A laboratory designed to offer additional practice using various instructional technologies and media. Concurrent enrollment with a lecture session is required, and, if dropped, then dropped simultaneously. (S/U only.)

**JPN 2200 MODERN JAPANESE IV**

PR: JPN 2200 or equivalent. Continuation of JPN 2200. Practice of writing, speaking and listening skills for language students who intend to attain basic proficiency.

**JPN 4905 DIRECTED STUDY**

Permits study options in Japanese not available in regularly scheduled curriculum at departmental discretion. Departmental approval required. May be repeated up to 12 credit hours.

**JPN 4930 SELECTED TOPICS**

Course permits study options in Japanese not available in regularly scheduled curriculum at departmental discretion. Departmental approval required. May be repeated up to 10 credit hours.
Latin

LAT 1120 BEGINNING LATIN I (4)
An introductory course in Latin grammar with appropriate readings.
CR: LAT 1120 or equivalent. An introductory course in Latin grammar with appropriate readings.
LAT 2200 INTERMEDIATE LATIN (4)
PR: LAT 1121 or equivalent. Readings in Latin at an intermediate level.

LNV 2660 VERGIL (4)
PR: LAT 1121 or equivalent. Readings in Vergil's Aeneid. Study of the tradition, techniques, and artistry of Roman epic poetry. Available to majors and non-majors.

LNV 4381 LIVY (4)
PR: Basic knowledge of Latin. Readings in the ideas and artistry of this Roman historian.
LNV 4501 SENECA AND ROMAN PHILOSOPHY (4)
PR: Basic knowledge of Latin. Readings in the philosophic writings of Cicero, together with a consideration of eclectic thought.
LNV 4634 CATULLUS (4)
PR: Basic knowledge of Latin. Readings in Catullus. Study of techniques and tradition in Roman lyric poetry.
LNV 4644 CICERO (4)
PR: Basic knowledge of Latin. Readings in the epistles of Cicero.
LNV 4654 HORACE (4)
PR: Basic knowledge of Latin. Readings in the Odes and Epodes of Horace; study of the Ode's tradition.
LNV 4670 OVID (4)
PR: LAT 1121 or equivalent. Readings in Ovid's Metamorphoses. Study of Ovid's technique, style, and artistry.
LNV 4900 DIRECTED READING (1-4)
Departmental approval required.
LNV 4930 SELECTED TOPICS (4)
Study of an author, movement, or theme. May be repeated up to 12 credit hours.

Polish

POL 1120 BEGINNING POLISH I (4)
CR: POL 1120L. A laboratory designed to offer additional practice using various instructional technologies and media. Concurrent enrollment with a lecture session is required, and, if dropped, then dropped simultaneously. (S/U only.)

POL 1121 BEGINNING POLISH II (4)
PR: POL 1120 or equivalent. CR: POL 1121L. This course continues the four basic skills of POL 1120, with continued emphasis on structures, dialogues, readings, dictation, and vocabulary-building. Knowledge of Russian can help.

POL 1121 BEGINNING POLISH II LABORATORY (1)
CR: POL 1121. A laboratory designed to offer additional practice using various instructional technologies and media. Concurrent enrollment with a lecture session is required, and, if dropped, then dropped simultaneously. (S/U only.)

POL 2200 POLISH III (4)
PR: POL 1121 or the equivalent. For language students who intend to attain basic proficiency.

Portuguese

POR 1120 BEGINNING PORTUGUESE I (4)
CR: POR 1120L. Development of basic skills in listening and reading comprehension, speaking and writing of Portuguese.

POR 1120 BEGINNING PORTUGUESE LABORATORY (1)
CR: POR 1120. A laboratory designed to offer additional practice using various instructional technologies and media. Concurrent enrollment with a lecture session is required, and, if dropped, then dropped simultaneously. (S/U only.)

POR 2200 INTERMEDIATE PORTUGUESE I (3)
CR: POR 2200. A laboratory designed to offer additional practice using various instructional technologies and media. Concurrent enrollment with a lecture session is required, and, if dropped, then dropped simultaneously. (S/U only.)

POR 2201 INTERMEDIATE PORTUGUESE II (3)
For language students who intend to attain basic proficiency.

POR 4905 DIRECTED STUDY (1-5)
Course permits study options in Portuguese not available in the regularly scheduled curriculum. May be repeated up to 10 hours. (S/U only.)

POR 4930 SELECTED TOPICS (1-5)
Course permits study options in Portuguese not available in the regularly scheduled curriculum. May be repeated up to 10 hours.

Russian

RUS 1120 BEGINNING RUSSIAN I (4)
CR: RUS 1120L. The first course in the study of elementary Russian. Emphasis on the development of basic skills in comprehension, speaking and reading.

RUS 1120 BEGINNING RUSSIAN II LABORATORY (1)
CR: RUS 1120. A laboratory designed to offer additional practice using various instructional technologies and media. Concurrent enrollment with a lecture session is required, and, if dropped, then dropped simultaneously. (S/U only.)

RUS 1121 BEGINNING RUSSIAN II (4)
PR: RUS 1120 or Cl. CR: RUS 1121L. The second course in the study of elementary Russian. Emphasis on the development of basic skills in comprehension, speaking and reading.

RUS 1121 BEGINNING RUSSIAN II LABORATORY (1)
CR: RUS 1121. A laboratory designed to offer additional practice using various instructional technologies and media. Concurrent enrollment with a lecture session is required, and, if dropped, then dropped simultaneously. (S/U only.)

RUS 2200 RUSSIAN III (4)
PR: First year Russian or equivalent. Review and development of basic skills in conversation, composition, and reading.
RUS 2201 RUSSIAN IV (4)
PR: RUS 2200 or equivalent. Review and development of basic skills in conversation, composition, and reading.

RUS 2270 OVERSEAS STUDY (1-6)
Intensive study of the Russian language in Russia involving at least 20 hours per week of classroom instruction and cultural excursions conducted in Russian around Moscow and other parts of Russia. May be repeated up to 12 credit hours.

RUS 3240 CONVERSATION I (4)
PR: Second year Russian or equivalent. Development of basic conversational skills.

RUS 3470 OVERSEAS STUDY (1-6)
Intensive Russian at Moscow Linguistic University with excursions in Moscow and Russia. Must be enrolled in the USF Summer Study in Moscow program. Two years Russian required. Students from other institutions eligible.

RUS 3500 RUSSIAN CIVILIZATION -6A (3)
A survey of the cultural history of Russia.

RUS 4241 CONVERSATION II (4)
PR: Previous course in series or equivalent. Development of conversational skills. May be repeated.

RUS 4402 ADVANCED RUSSIAN CONVERSATION & COMPOSITION I (4)
PR: RUS 4241 or Cl. Third year Russian.

RUS 4403 ADVANCED RUSSIAN CONVERSATION & COMPOSITION II (4)
PR: RUS 4241 or Cl. Third year Russian.

RUS 4471 ADVANCED OVERSEAS STUDY (1-6)
Intensive Russian at Moscow Linguistic University with excursions in Moscow and Russia. Must be enrolled in the USF Summer Study in Moscow program. Three years Russian required. Students from other institutions eligible.

RUS 4700 RUSSIAN LINGUISTICS (3)
PR LIN 3010 or equivalent or Cl. An introduction to Russian Linguistics content: Phonology, Morphology, Word-formation, Syntax.

RUS 4900 SELECTED TOPICS (1-3)
Study of an author, movement or theme.

RUS 4905 DIRECTED STUDY (1-3)
Departmental approval required

RUT 3110 RUSSIAN CLASSICS IN ENGLISH -6A -XLW (3)
Masterpieces of 19th century Russian literature in English. The major works of Pushkin, Lermontov, Gogol, Turgenev, Dostoevsky, Tolstoy, and Chekhov. Elective for all students in all departments.

RUT 3111 TWENTIETH-CENTURY RUSSIAN LITERATURE IN ENGLISH -6A -XLW (3)
Masterpieces of 20th century Russian literature in English. The major works of Bely, Olesha, Babel, Zamyatin, Bulgakov, Pasternak, and Solzhenitzen. Elective for all students in all departments.

Spanish

SPAN 1120 BEGINNING SPANISH I (4)
CR: SPN 1120L. Development of basic skills in listening and reading comprehension, speaking and writing of Spanish. Not open to native or near-native speakers of Spanish.

SPAN 1120 BEGINNING SPANISH I LABORATORY (1)
CR: SPN 1120. A laboratory designed to offer additional practice using various instructional technologies and media. Concurrent enrollment with a lecture session is required, and, if dropped, then dropped simultaneously. Not open to native or near-native speakers of Spanish. (S/U only.)

SPAN 1121 BEGINNING SPANISH II (4)
PR: SPN 1120 or equivalent. CR: SPN 1121L. Continued development of basic skills in listening and reading comprehension, speaking and writing of Spanish. Not open to native or near-native speakers of Spanish.

SPAN 1121L BEGINNING SPANISH II LABORATORY (1)
CR: SPN 1121. A laboratory designed to offer additional practice using various instructional technologies and media. Concurrent enrollment with a lecture session is required, and, if dropped, then dropped simultaneously. Not open to native or near-native speakers of Spanish. (S/U only.)

SPAN 1130 ACCELERATED SPANISH FOR NEAR-NATIVE SPEAKERS AND OTHERS (1-6)
PR: CI. Accelerated course for near-native speakers and others with some knowledge of Spanish capable of making rapid progress.

SPAN 2200 SPANISH III (3)
PR: SPN 1121 or equivalent. Continued development of basic skills in listening and reading comprehension, speaking and writing of Spanish. May NOT be taken concurrently with SPN 2201. Not open to native or near-native speakers of Spanish.

SPAN 2201 SPANISH IV (3)
PR: SPN 2200 or equivalent. Continued development of basic skills in listening and reading comprehension, speaking and writing of Spanish. May NOT be taken concurrently with SPN 2200. Not open to native or near-native speakers of Spanish.

SPAN 2240 CONVERSATION I (4)
PR: SPN 1121. For development of basic conversational skills. Not open to native or near-native speakers of Spanish.

SPAN 2241 CONVERSATION II (3)
PR: SPN 2240 or equivalent. To improve fluency in spoken Spanish. Not open to native or near-native speakers of Spanish.

SPAN 2270 OVERSEAS STUDY (1-6)
PR: SPN 1121. An intensive study-travel program in a Spanish-speaking country. Prior departmental approval and early registration are required.

SPAN 3300 COMPOSITION (3)
PR: SPN 2200-2201. A study of syntax, grammar and writing. Not open to native or near-native speakers of Spanish.

SPAN 3340 ADVANCED SPANISH FOR NATIVE SPEAKERS I (3)
PR: Native or near native oral/aural proficiency. Course for native and near-native speakers of Spanish due to home environment and/or residence in a Spanish speaking country, but without formal training in the language. Emphasis on grammatical problems affecting such speakers. Texts and discussions in Spanish. This is primarily a discussion course. May not count as Spanish major elective.

SPAN 3341 ADVANCED SPANISH FOR NATIVE SPEAKERS II (3)
PR: SPN 3340. Continuation of SPN 3340. Course for native and near-native speakers of Spanish due to home environment and/or residence in a Spanish speaking country, but without formal training in a language. Emphasis on those aspects of written expression such as style and syntax which are problematic for such speakers. Texts and discussions in Spanish. This is primarily a discussion course. May not count as Spanish major elective.

SPAN 3440 SPANISH FOR BUSINESS (3)
PR: SPN 2201 or equivalent. An introduction to the Spanish language as used in undertaking ordinary business transactions.

SPAN 3441 ADVANCED SPANISH FOR BUSINESS WRITING (3)
PR: SPN 3440 or equivalent. Continuation of SPN 3440. Advanced business communication in Spanish through discussion, reading, and writing of representative texts from the Spanish speaking world. Emphasis on business forms and composition of proposals, reports, records, and the language of advertisement. Texts and discussions in Spanish. This is a discussion course, open to Spanish and Business majors and minors.

SPAN 3500 SPANISH CIVILIZATION (3)
PR: SPN 1121. The culture and civilization of Spain.

SPAN 3520 SPANISH AMERICAN CIVILIZATION (3)
Readings and discussions on the culture and civilization of Spanish America. For majors and non-majors.

SPAN 4301 EXPOSITORY WRITING (3)
PR: SPN 3300. Practical training in contemporary Spanish structure, usage and stylistic devices. Not open to native or near-native speakers of Spanish.
YOR 1120 YORUBA
This course is designed to familiarize students with modern Yoruba orthography and to develop skills in reading, writing, speaking, and understanding spoken Yoruba. Pronunciation in Yoruba and achieving basic communicative competence in the language are among the skills to be attained in the course.

YOR 1121 YORUBA II
A continuation of YOR 1120, this course delves further into the structure of Yoruba and its grammatical functions. Also included is practice in reading elementary texts with emphasis on grammar, vocabulary, and an appreciation for style. Also included is composition and drills in oral work. May be repeated up to 8 credit hours.

LINGUISTICS
ENS 1483 ENGLISH FOR FOREIGN STUDENTS I
A special course for students learning English as a second language. Intensive study and drill in American English pronunciation and listening comprehension.

ENS 1484 ENGLISH FOR FOREIGN STUDENTS II
PR: ENS 1483 or CI. A continuation of ENS 1483. Emphasis on reading and composition.

LIN 3010 INTRODUCTION TO LINGUISTICS
Introduction to the basic principles of linguistic science; phonological and grammatical analysis and description; language change and genetic relationships.

LIN 3801 LANGUAGE AND MEANING -6A
A survey introduction for non-specialists to the basic principles of formalizing linguistic descriptions through elementary phonological, morphological, and syntactic data solution—problems drawn from a variety of languages. Both taxonomic and generative analysis and descriptions will be developed and compared.

LIN 4575 LANGUAGE TYPES OF THE WORLD
An introduction to linguistic typology consisting in a systematic comparison of characteristic representatives of the various language types, such as Vietnamese, Malay, Hungarian, Swahili, Sanskrit, Hebrew, and others. No knowledge of any of these languages on the part of the student is presumed.

LIN 4600 LANGUAGE AND SOCIETY
PR: LIN 3010. An analysis of the interrelation of a language and the structure of the society using it. The linguistic behavior patterns characteristic of particular social, political, economic, educational, and racial groups. Problems in communication between strata.

LIN 4710 LANGUAGE AND COMMUNICATION: ACQUISITION AND DEVELOPMENT
PR: LIN 3010. A survey of current research and theory in the processes of normal acquisition and development of language and communication in children. The acquisition and development of phonology, syntax, semantics, pragmatics, and nonverbal communication and the role of language in general cognitive development.

LIN 4903 DIRECTED READING
PR: CI. Readings in special topics. Departmental approval required.

LIN 5930 SELECTED TOPICS
PR: CI. Course content depends upon students' needs and instructor's interest and may range over the entire field of linguistics.

LINGUISTICS
ENS 1483 ENGLISH FOR FOREIGN STUDENTS I
A special course for students learning English as a second language. Intensive study and drill in American English pronunciation and listening comprehension.

ENS 1484 ENGLISH FOR FOREIGN STUDENTS II
PR: ENS 1483 or CI. A continuation of ENS 1483. Emphasis on reading and composition.

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Liberal Studies

IDS 3300 STRUCTURES OF KNOWLEDGE AND KNOWING (4)
- Distinguishing the modalities of human knowledge and understandings as reflected in the classic distinctions: sensory/motor/emotive; normative/descriptive/non-rational; logical/mathematical; ethical/physical/moral; qualitative/quantitative; mind/will/body; substance and function.

IDS 3310 PROGRESS AND UTOPIA (4)
- Examination of the modern backgrounds of contemporary awareness: particularly the development of historical awareness of ourselves as scientifically, technologically, and socially progressive in relation to both utopic and non-utopic futures.

IDS 3320 FREEDOM AND THE SELF (4)
- Analysis of the idea of freedom in relation to the idea of self, involving comparative treatment of the variety of standpoint of conceiving the individual personality in relation to the social context.

IDS 4344 SEMINAR: MAN AND NATURE (3)
- PR: Senior standing or CI. Examination of aspects of contemporary theories of nature and man deriving in the liberal arts, to the purpose of developing a general assessment of contemporary knowledge and methods of knowing.

IDS 4930 SELECTED TOPICS (1-4)
- Course content determined by students' and instructor's interests and needs.

Library and Information Science

LIS 2001 LIBRARY AND INFORMATION SKILLS (3)
- An introduction to various types of information sources (print and electronic) and search techniques. The course is designed to instruct students how to locate, evaluate, and effectively use information.

LIS 2002 INTRODUCTION TO THE INTERNET (3)
- Covers the history, structure, and use of the Internet, with an emphasis on using the Internet to answer educational, research, and other information-based needs.

LIS 2937 SELECTED TOPICS IN LIBRARY/INFORMATION SCIENCE (1-3)
- Covers a variety of topics in the field of library/information science such as emerging technologies, administration and service, and current professional issues. May be repeated up to 9 credit hours total when topic varies.

LIS 3343 WORLD WIDE WEB PAGE DESIGN AND MANAGEMENT (3)
- Covers a variety of strategies in designing and maintaining attractive and effective World Wide Web pages for publication on the Internet.

LIS 4930 SELECTED TOPICS IN LIBRARY/INFORMATION SCIENCE (1-3)
- Covers a variety of advanced topics in the field of library/information science such as emerging technologies, administration and service, and current professional issues.

LIS 5268 MICROCOMPUTER APPLICATIONS IN LIBRARY AND INFORMATION CENTERS (3)
- Microcomputer hardware and software for libraries and their application in library/information settings. Projects using major application for budgets, databases, and telecommunications are undertaken.

LIS 5315 INSTRUCTIONAL GRAPHICS (3)
- PR: CI. Theoretical aspects, planning and production of instructional graphic material. The theory of graphic communications. Interpreting needs for instructional materials appropriate for given behavioral objectives.

LIS 5333 TV IN SCHOOL AND LIBRARIES (3)
- Small format video tape recordings and the utilization of open and closed broadcasts in schools and libraries.

LIS 5404 FOUNDATIONS OF LIBRARY AND INFORMATION SCIENCE (3)
- Introduction to the study of library and information science, history; organization; specialized literature; outstanding
leaders; current trends, issues, and problems; the place of the information agency in society with its contributions to that society.

LIS 6937 SELECTED TOPICS IN LIBRARY STUDIES (1-4)
PR: CI. Covers a variety of topics in such areas as collection development, reference services, technical services, and administration.

Marine Science
OCE 2001 INTRODUCTION TO OCEANOGRAPHY -NS (3)
Overview of biological, chemical, geological, and physical oceanography. (Also listed under Geology.)
OCE 4930 SELECTED TOPICS IN MARINE SCIENCE (1-4)
Selected topics in the marine sciences including marine biology, marine chemistry, marine geology, physical oceanography, and interdisciplinary topics relating to marine environments.

Mass Communications
ADV 3000 INTRODUCTION TO ADVERTISING (3)
PR: MMC 2100 and MMC 3602. A study of the structures, functions, and persuasive language of advertising in mass media, with attention to social, political, economic, and legal aspects.
ADV 3101 ADVERTISING COPYWRITING (3)
PR: ADV 3000 and ECO 1000. Study of laboratory experience in preparation of advertising copy for newspapers, magazines, radio, television, direct mail, outdoor displays, specialty items, and interactive electronic media.
ADV 3103 RADIO-TELEVISION ADVERTISING (3)
PR: ADV 3000. An intensive study and analysis of radio and television for advertising purposes, including copywriting, script and storyboard preparation, time buying and selling techniques, audience research methods, and basic production concepts.
ADV 3200 ADVERTISING DESIGN (3)
PR: ADV 3000 for advertising sequence majors; VIC 3001 for other Mass Comm majors. Application of graphic design principles to various areas of advertising. Combining visual and verbal elements effectively.
ADV 3300 ADVERTISING MEDIA STRATEGY (3)
PR: ACG 3074, ADV 3000, and ECO 1000. Problems, techniques, strategy of media research, planning, budgeting and effective utilization in advertising.
ADV 3700 RETAIL ADVERTISING PLANNING AND EXECUTION (3)
PR: ADV 3000 and ADV 3101. A study of retail advertising, including management decisions, processes, procedures, media planning, production techniques, and problems affecting the development of advertising to fulfill retail objectives.
ADV 4800 ADVERTISING CAMPAIGNS (3)
PR: ADV 3101, ADV 3300, ECO 1000, MAR 3023, and MMC 4420. Advanced advertising course requiring planning and production of complete general advertising campaign, including research, production methods, budgeting, and media schedules.
ADV 4940 ADVERTISING PRACTICUM (1)
PR: CI. For advertising sequence majors. Practical experience outside the classroom where the student works for academic credit under the supervision of a professional practitioner. Periodic written and oral reports to the faculty member coordinating the study. (S/U only.)
FIL 2200 THE FILM AS MASS COMMUNICATION II: RHETORIC AND STYLISTICS (3)
PR: FIL 3004. A continuation of FIL 3004 to include the effective arrangement of scenes and sequences in motion picture and television films.
FIL 3004 THE FILM AS MASS COMMUNICATION I: SYNTAX (3)
PR: MMC 2100 and MMC 3602. The language, conventions, elements, and patterns of the film medium as related to current models of effective mass communication and new theories of nonverbal communication.

FIL 4404 SOCIAL HISTORY OF THE FILM, 1945 TO THE PRESENT (3)
PR: MMC 2100 and MMC 3602. The development of the film from 1945 to the present.
JOU 2100 BEGINNING REPORTING (3)
PR: MMC 2100 and MMC 3602. Basic instruction in news judgment, sources of news, gathering of information, and writing techniques. Typing ability is required.
JOU 3101 ADVANCED REPORTING (3)
PR: JOU 2100 or RTV 3301 (RTV majors only), JOU 4200 (may be taken concurrently). PHI 1103 and POS 2041. Getting information and writing the more complex and specialized story. Techniques of investigative and analytical reporting, including ethical and legal considerations.
JOU 3300 MAGAZINE ARTICLE AND FEATURE WRITING (3)
PR: CRW 2100 and JOU 2100. Planning, researching, writing, and marketing articles for general and special interest magazines and newspaper magazine supplements; experiences in developing article ideas; inductive analysis of contemporary magazine articles.
JOU 3306 CRITICAL WRITING: EDITORIALS, REVIEWS, COLUMNS (3)
PR: JOU 3101 and JOU 4200. Interpretive and opinion writing for the mass media. Analysis and discussion of current events as a basis for critical thinking and editorial writing; evaluation of editorial pages of leading newspapers. Study of journalistic techniques involved in personal columns.
JOU 3940 PRACTICUM IN PUBLIC AFFAIRS REPORTING (1)
PR: JOU 3101 or RTV 3301 (RTV majors only), POS 2041 and POS 2112 or POS 3142. Covering city council meetings, courthouse, city hall, courts, society, and other special assignments. Emphasis is on coverage of major governmental units of all levels of government, including examination of contemporary public documents and records.
JOU 4200 NEWS EDITING I (3)
PR: ECO 1000, JOU 2100, and SYG 2010. Evaluating news and its display; editing and rewriting copy for the mass media; with emphasis on the daily newspaper; news judgment, headlines, makeup; ethical problems.
JOU 4206 NEWSPAPER DESIGN AND TYPOGRAPHY (3)
PR: JOU 4200 or CI. Theoretical and practical applications of newspaper design; problems in newspaper layout; the research of newspaper typography and design and its application; redesign of contemporary newspapers.
JOU 4941 EDITING PRACTICUM (1)
PR: Senior standing, JOU 4200 and CI. For news-editorial sequence majors. Practical experience outside the classroom where the student works for academic credit under the supervision of a professional practitioner. Periodic written and oral reports to the faculty member coordinating the study. (S/U only.)
JOU 4944 MAGAZINE PRACTICUM (1)
PR: Senior standing and CI. For magazine sequence majors. Practical experience outside the classroom where the student works for academic credit under the supervision of a professional practitioner. Periodic written and oral reports to the faculty member coordinating the study. (S/U only.)
JOU 5116 EXPLORATIONS IN NEWSWRITING (3)
PR: CC. Students work to develop writing styles, reporting on and creating stories about significant issues, events, and ideas. The course explores the notion that narrative journalism can be accurate, thorough, fair, and compelling, effectively bringing readers into stories and giving them a bigger stake in the news. The focus is on going beyond traditional practices of reporting and writing news stories.
MMC 2100 WRITING FOR THE MASS MEDIA (3)
PR: Sophomore standing; 2.7 overall grade point average; grade of "C" in ENC 1101, ENC 1102, and passing score on English Diagnostic Test. An introduction to the basic skills of writing for the mass media with practice in library research, persuasive writing, and informational writing.

MMC 3602 MASS COMMUNICATIONS AND SOCIETY (3)

MMC 4123 MEDIA SCRIPT WRITING (3)
PR: MMC 2100 and MMC 3602. An introduction to the techniques of writing scripts for photographic and multimedia presentation, electronic media, and industrial and documentary film.

MMC 4200 HISTORY AND PRINCIPLES OF COMMUNICATIONS LAW (3)
PR: MMC 2100 and MMC 3602. Historical and constitutional backgrounds of freedom and control of expression, statutory enactments, major court decisions and administrative rulings which affect print media, telecommunications, advertising, and public relations.

MMC 4203 COMMUNICATION ETHICS (3)
PR: MMC 2100 and MMC 3602 or CI. A study of the fundamental principles and philosophy of ethics and their application to the decision-making process in the various professions of mass communications.

MMC 4420 RESEARCH METHODS IN MASS COMMUNICATIONS (3)
PR: MMC 2100 and MMC 3602. An introduction to the theory and practice of quantitative and historical research methods as applicable to the study of media and mass communications. Emphasis on survey research, evaluation of data, and report writing.

MMC 4900 DIRECTED READING IN MASS COMMUNICATIONS (1-3)
PR: Junior standing and CI. Reading and directed study in special topics.

MMC 4910 INDIVIDUAL RESEARCH IN MASS COMMUNICATIONS (1-3)
PR: Junior standing and CI. The course provides means for a student to do independent study in an area not covered by a numbered course.

MMC 4936 SELECTED TOPICS IN MASS COMMUNICATIONS STUDIES (1-3)
PR: MMC 2100, MMC 3602 and CI. Courses designed to meet current or specific topics of interest to instructors and students.

MMC 4945 MEDIA INTERNSHIP-SEMINAR (3)
PR: CI and 15 hours in Mass Comm. courses and completion of an 8-12 week paid media internship with newspaper, broadcast station, or other media-related agency approved by the School. Reports on experiences for discussion and evaluation. (S/U only.)

PGY 2110C COLOR PHOTOGRAPHY (3)
PR: PGY 3620 or CI. Laboratory required. Development of knowledge and skills of color photography for publication and presentation. Emphasis is on the use of transparency and negative color materials in their application to the media.

PGY 3610 PHOTOJOURNALISM I (3)

PGY 3610 PHOTOJOURNALISM II (3)
PR: PGY 3610. Laboratory required. Advanced process and practice of photography for publication.

PUR 3000 PRINCIPLES OF PUBLIC RELATIONS (3)
PR: MMC 2100 and MMC 3602. The underlying theory and professional practice of public relations within corporate and institutional structures and its vital role in society; ethical standards of practice, and relationships of the practice to the public media; public relations problem-solving process.

PUR 4100 WRITING FOR PUBLIC RELATIONS (3)
PR: JOU 2100 and PUR 3000. Techniques for creating effective written public relations communications to achieve organizational goals, including news releases, proposal letters, broadcast scripts, and memos. Exercises based on case study scenarios. Analysis of potential impact on organizations. Development of strategies to deal with public relations problems successfully and responsibly through analysis of case studies. Communication techniques and trends.

PUR 4700 PUBLIC RELATIONS PRACTICUM (1)
PR: Senior standing and CI. For public relations sequence majors. Practical experience outside the classroom where the student works for academic credit under the supervision of a professional practitioner. Periodic written and oral reports to the faculty member coordinating the study. (S/U only.)

PUR 4801 ADVANCED PUBLIC RELATIONS (3)
PR: MMC 4420, PUR 4100, and PUR 4401. As the final course in the public relations sequence, it involves intensive study of counseling and problem-solving techniques used in professional practice. Development of a comprehensive public relations program or campaign. Extensive reading in the literature of contemporary practice.

RTV 2100 WRITING FOR RADIO AND TV (3)
PR: CRW 2100 or ENC 3310 and RTV 3001. The art and practice of script writing for radio and television.

RTV 3001 INTRODUCTION TO TELECOMMUNICATIONS (3)
PR: MMC 2100 and MMC 3602. A survey of the organization, structure, and function of the broadcasting industry.

RTV 3210 RADIO PRODUCTION AND DIRECTION (3)
PR: RTV 3001. Radio production and direction; laboratory and broadcast experiences.

RTV 3225 VIDEO WORKSHOP (1)
PR: MMC 2100 and MMC 3602. An introduction to the techniques and applications of field television production and electronic editing.

RTV 3301 BROADCAST NEWS (4)
PR: MMC 2100 and MMC 3602. Methods in gathering, writing, and editing newscasts for radio and television.

RTV 3941 RADIO PRACTICUM (1)
PR: RTV 3001 and CI. For telecommunications sequence majors. Practical experience outside the classroom where the student works for academic credit under the supervision of a professional practitioner. Periodic written and oral reports to the faculty member coordinating the study. (S/U only.)

RTV 4220 TV PRODUCTION AND DIRECTION (3)
PR: RTV 3001 and RTV 3301. A basic course in the techniques of producing and directing TV programs.

RTV 4304 TV NEWS (3)
PR: RTV 3001 and RTV 3301. Techniques in writing and video taping for television news.

RTV 4320 ELECTRONIC FIELD PRODUCTION (3)
PR: RTV 3001 and RTV 3301. Advanced producing, scripting, lighting, camera, and editing for video production on location. Introduction to computer editing and graphics.

RTV 4500 TELECOMMUNICATIONS PROGRAMMING (3)
PR: RTV 3001. Program concepts, resources, costs, selection and scheduling, analysis of programming in terms of structures, appeals and strengths.

RTV 4700 TELECOMMUNICATIONS LAW AND POLICY (3)
PR: for broadcast news option: MMC 4200, POS 2112 or POS 3142, RTV 3001, RTV 3301; for programming option: RTV 2100 or RTV 3301, RTV 3001, RTV 4500, and Senior
standing. A study of the electronic media from the perspective of governmental regulation and the political process with special emphasis on how regulatory policy is determined.

RTV 4942 TV PRACTICUM (1) PR: RTV 4220 and CI. For telecommunications sequence majors. Practical experience outside the classroom where the student works for academic credit under the supervision of a professional practitioner. Periodic written and oral reports to the faculty member coordinating the study. (S/U only.)

VIC 3001 INTRODUCTION TO VISUAL COMMUNICATIONS (3) PR: MMC 2100 and MMC 3602. Survey of visual communication theory, techniques and contemporary application in the visual media. Critical examination of visual communication in newspapers, magazines, television, motion pictures and new media.

VIC 3943 VISUAL COMMUNICATION PRACTICUM (1) PR: Senior standing and CI. For visual communications sequence majors. Practical experience outside the classroom where the student works for academic credit under the supervision of a professional practitioner. Periodic written and oral reports to the faculty member coordinating the study. (S/U only.)

Mathematics

CGS 3414 PROBLEM SOLVING USING PASCAL OR C -6A (3) CP: MAS 3105. Introduction to Pascal or C with special emphasis on its applications to mathematics.

COP 4313 SYMBOLIC COMPUTATIONS IN MATHEMATICS -6A -QM (3) PR: MAP 2302 and MAS 3105. Students will write programs to solve problems in various areas of mathematics including calculus and linear algebra with symbolic programming systems such as Maple, Mathematica, or Macsyma.


MAA 4212 INTERMEDIATE ANALYSIS II -6A (3) PR: MAA 4211. Riemann-Stieltjes integration, uniform convergence, and related topics.

MAA 4402 COMPLEX VARIABLES -6A -QM (3) PR: MAA 4301 or CI. Complex numbers, Cauchy-Riemann equations, analytic and harmonic functions, power series, Cauchy Integral Theorem, Cauchy Integral Formula, residue theory. (No credit for students with credit in MAA 5405.)

MAA 5306 REAL ANALYSIS I (3) PR: MAA 4211. Sets and functions, measure theory, measurable functions, Lebesgue integrations and limit theorems.

MAA 5307 REAL ANALYSIS II (3) PR: MAA 5306. Continuation of MAA 5306, including functions of bounded variation, product measures and Fubini's theorem, differentiation, L^p spaces.

MAA 5405 APPLIED COMPLEX ANALYSIS (3) PR: CI. Complex numbers, analytic and harmonic functions. Series. Contour integrals, residue theory. Conformal mappings. (A survey course emphasizing techniques and applications.)

MAC 2102 COLLEGE ALGEBRA -6A -QM (3) PR: Two years of high school algebra. Concepts of the real number system, functions, graphs, and complex numbers. Analytic skills for solving linear, quadratic, polynomial, exponential, and logarithmic equations. Mathematical modeling of real life applications.

MAC 2114 COLLEGE TRIGONOMETRY -6A (2) PR: Two years of high school algebra. Angles, Trigonometric functions, properties and graphs of trigonometric functions, right triangles, laws of sines and cosines, polar coordinates. (No credit for students with credit in MAC 2132.)

MAC 2132 COLLEGE ALGEBRA AND TRIGONOMETRY -6A -QM (4) PR: Two years of high school algebra. Real numbers and their properties, algebraic expression, equations and inequalities, functions, exponential and logarithmic functions. Angles, trigonometric functions, properties and graphs of trigonometric functions, right triangles, laws of sines and cosines, polar coordinates. (No credit for MAC 2132 for students with credit in MAC 2233 or MAC 2102.)

MAC 2133 BUSINESS CALCULUS -6A -QM (4) PR: Three years of high school mathematics including two years of algebra or MAC 2102. Linear equations and functions, mathematics of finance, differentiation and integration of algebraic functions with applications to business, finance, and economics. (No credit for mathematics majors or students with credit in MAC 2233, MAC 2281, or MAC 2311.)

MAC 2233 ELEMENTARY CALCULUS I -6A -QM (4) PR: Three years of high school mathematics including two years of algebra or MAC 2102. Differentiation and integration of algebraic functions with applications, exponential and logarithmic functions. MAC 2233-MAC 2234 are primarily for students from biological and social sciences. (No credit for mathematics majors or students with credit in MAC 2230, MAC 2281, or MAC 2311.)

MAC 2234 ELEMENTARY CALCULUS II -6A -QM (3) PR: MAC 2230 or MAC 2233. Techniques of integration, differential equations, functions of several variables, series and Taylor polynomials. (No credit for mathematics majors or students with credit in MAC 2282 or MAC 2312.)

MAC 2281 ENGINEERING CALCULUS I -6A -QM (3) PR: Two years of high school algebra, and a semester of trigonometry or MAC 2132. A year of high school geometry is recommended. Limits, differentiation, differentials, extrema, indefinite integral. (No credit for students with credit in MAC 2230, MAC 2233, or MAC 2311.)

MAC 2282 ENGINEERING CALCULUS II -6A -QM (3) PR: MAC 2281 or CC. Techniques of integration, trigonometric, log, and exponential functions, series, polar coordinates, applications. (No credit for students with credit in MAC 2234 or MAC 2312.)

MAC 2283 ENGINEERING CALCULUS III -6A (3) PR: MAC 2282 or CC. Functions of several variables, partial derivatives, vector algebra, applications. (No credit for students with credit in MAC 2313.)

MAC 3311 CALCULUS I -6A -QM (4) PR: Two years of high school algebra, and a semester of trigonometry or MAC 2132. A year of high school geometry is recommended. Limits, derivatives, applications. (No credit for students with credit in MAC 2230, MAC 2233, or MAC 2281.)

MAC 3312 CALCULUS II -6A -QM (3) PR: MAC 2311 with a grade of "C" or better or CC. Antiderivatives, the definite integral, applications, series, log, exponential and trig functions. (No credit for students with credit in MAC 2311 or MAC 2282.)

MAC 3313 CALCULUS III -6A (4) PR: MAC 2312 with a grade of "C" or better or CC. Integration, polar coordinates, conic sections, vectors, indeterminate forms and improper integrals. (No credit for students with credit in MAC 2283.)

MAD 3100 DISCRETE MATHEMATICS -6A (3) PR: MAC 2281 or MAC 2311. An introduction to some of the aspects of discrete mathematics that are fundamental to digital computing. Topics include sets, numbers, algorithms, Boolean algebra, computer arithmetic, elementary combinatorics and an introduction to graph theory. (No credit towards Mathematics major.)

MAD 4401 NUMERICAL ANALYSIS -6A (4) PR: MAS 3105; ability to program a digital computer. Interpolation and quadrature, finite differences, numerical solution of algebraic and transcendental equations, numerical solution of differential equations, computer techniques.

MAD 4504 THEORY OF COMPUTATION -6A (3) PR: MGF 3301 or MAD 3100. Mathematical aspects of

MAD 5101 LISP: PROGRAMMING WITH ALGEBRAIC STRUCTURES -6A
PR: MHF 5306 or MAD 6510 or MAS 5311 or CI. Programmed in LISP, functional languages, foundations of Lambda Calculus and algebraic applications (theorem proving and game playing).

MAD 5305 INTRODUCTION TO GRAPH THEORY -3
PR: CI. Brief introduction to classical graph theory (4-color theorem, etc.), directed graphs, connected digraphs, condensation, incidence matrices, Polya's Theorem, networks.

MAD 5375 ABSTRACT ALGEBRA FOR TEACHERS -3
PR: MAS 4301 and bachelor's degree or CC. Groups, fields, vector spaces as they relate to high school algebra and geometry. (No credit for mathematics majors.)

MAD 5877 MATHEMATICAL ANALYSIS FOR TEACHERS -3
PR: MAC 2313 and bachelor's degree or CC. Advanced consideration of limits continuity, derivatives, differentials. The Fundamental Theorem of Arithmetic, Diophantine equations, the algebra of congruences, number functions and other selected topics. (No credit for mathematics majors.)

MAP 5202 DIFFERENTIAL EQUATIONS -6A
PR: MAC 2283 or MAC 2313. First order linear and nonlinear differential equations, higher order linear equations, applications.

MAP 5316 ORDINARY DIFFERENTIAL EQUATIONS I -3
PR: MAP 2302 and MAP 4211 or CI. Existence and uniqueness theory, properties of solutions, linear systems, stability theory, Sturm-Liouville theory.

MAP 5317 ORDINARY DIFFERENTIAL EQUATIONS II -3
PR: MAP 5316 and MAD 5306 or CI. Topics selected from fixed point theory, comparison theory, oscillation theory, Poincare-Bendixson Theory, Lyapunov functions, eigenfunction expansions.

MAP 5345 APPLIED PARTIAL DIFFERENTIAL EQUATIONS -3
PR: MAP 5407 or CI. Separation of variables, the heat equation, wave equation, Laplace's equation, classification, Green's functions, with emphasis on applications.

MAP 5407 METHODS OF APPLIED MATHEMATICS -3
PR: MAP 2302 or CI. Sturm-Liouville theory, Fourier series, Green's functions, matrix methods for linear systems of ordinary differential equations, and topics from calculus of variations, control theory, numerical solutions of differential equations.

MAS 3105 LINEAR ALGEBRA -6A
PR: MGF 3301. CP: MAC 2283 or 2313. Linear systems, matrix algebra, vector spaces, linear independence, inner product spaces, Gram-Schmidt algorithm, linear transformations and matrix representations, determinants, eigenvalues, diagonalization, quadratic forms.

MAS 4124 NUMERICAL LINEAR ALGEBRA -6A
PR: MAS 3105. This course will consider efficient and stable numerical methods for dealing with matrix computations such as the solution of systems, calculation eigenvalues and vectors, least squares, and so on.

MAS 4156 VECTOR CALCULUS -6A
PR: MAS 3105, and MAC 2313 or MAC 2283. Implicit and inverse function theorems, parametrized surfaces, submanifolds of Euclidean space, exterior calculus of differential forms, differentiation of vector fields, line and surface integrals, Stokes' Theorem, elementary continuous groups.

MAS 4214 ELEMENTARY NUMBER THEORY -6A
PR: MAC 2312. Divisibility, prime numbers, Fundamental Theorem of Arithmetic, Diophantine equations, the algebra of congruences, number functions and other selected topics. (No credit towards Mathematics major.)

MAS 4301 ELEMENTARY ABSTRACT ALGEBRA -6A
PR: MAS 3105. An introduction to the basic algebraic structures: groups, rings, integral domains, and fields; homomorphisms and isomorphisms.

MAS 5107 ADVANCED LINEAR ALGEBRA -3
PR: MAS 4301 or CI. CP: MAS 5311. The study of finite dimensional vector spaces over arbitrary fields. Topics covered include dual spaces, canonical forms for linear transformations, inner product spaces, orthogonal, unitary and self-adjoint operators and quadratic forms.

MAS 5215 NUMBER THEORY -3
PR: MAS 4301 or CI. Fundamental theorem of arithmetic, modular arithmetic, Chinese remainder theorem, Mersenne primes, perfect numbers, Euler-Fermat theorem, pseudoprimes, primitive roots, law of quadratic reciency, factorization and primality testing algorithms.

MAS 5311 ALGEBRA I -3
PR: MAS 4301 or CI. Group theory: Sylow theorems, classification of groups of small order. Ring theory: ideals, quotient rings, polynomial rings, Euclidean domains, quotient rings, polynomial rings, Euclidean domains, principal ideal domains and unique factorization.

MAS 5312 ALGEBRA II -3
PR: MAS 5311 or CI. Continuation of MAS 5311. Finely generated modules over a principal ideal domain, basic field theory, finite fields, Galois theory.

MAT 2930 SELECTED TOPICS IN MATHEMATICS -1-4
PR: CI. The course content will depend on the interest of faculty members and student demand.

MAT 2936 TECHNOLOGY SEMINAR -6A -QM
A two contact hour/week technology seminar to acquaint students majoring in mathematics, physics, and other sciences with the computer tools necessary in scientific communication and document preparation. (S/U only. May not be repeated.)

MAT 4906 INDEPENDENT STUDY -6A -QM
PR: CI. Specialized independent study determined by the student's needs and interests. The written contract required by the College of Arts and Science specifies the nature of the study and the number of credits awarded. (S/U only.)

MAT 4930 SELECTED TOPICS IN MATHEMATICS -1-4
PR: CI. The course content will depend on the interest of faculty members and student demand.

MAT 4937 MATHEMATICS MAJORS SEMINAR -6A -QM
PR: Admission to Mathematics Honors Program and CC. May be repeated for credit (3 credits maximum). (S/U only.)

MAT 5932 SELECTED TOPICS -6A -QM -1-4
PR: CI. Each course covers a single topic outside the usual curriculum.

MFG 1106 FINITE MATHEMATICS -6A -QM
PR: Two years of high school algebra. This terminal course is intended to present topics which demonstrate the beauty and utility of mathematics to the general student population. Among the topics which might be included are: Financial Mathematics, Linear and Exponential Growth, Numbers and Number Systems, Elementary Number Theory, Voting Techniques, Graph Theory and the History of Mathematics.

MFG 1108 SELECTED TOPICS IN LIBERAL ARTS MATHEMATICS -6A
PR: Admission to Mathematics Honors Program and CC. May be repeated for credit (3 credits maximum). (S/U only.)
are explained. Topics from number theory, combinatorics, algebra and geometry are used. Some topics are presented in their historical context and their impact on the development of mathematics is discussed.

MGF 2131 CHAOS AND FRACTALS -6A -QM (3)
PR: High school algebra and trigonometry. Computer experiments in the behavior of functions under iteration: periodicity, attractors, stability, complex numbers, Cantor set, fractional dimension, sensitive dependence.

MGF 3301 BRIDGE TO ABSTRACT MATHEMATICS -6A -QM (3)
PR: MAC 2311 or MAC 2281. An introduction to the axiomatic nature of mathematics through topics in areas such as set theory, algebra, and calculus. The rigor of precise definitions, theorems, and proofs will be emphasized.

MHF 4403 THE EARLY HISTORY OF MATHEMATICS -6A -XM (3)
PR: MAC 2312 and upper-level standing. A study of the history and development of mathematics and its cultural impact from the formation of number systems to the Renaissance.

MHF 5306 MATHEMATICAL LOGIC AND FOUNDATIONS I (3)
PR: MAS 4301 or CI. Two-course sequence covering: predicate calculus and classical model theory; transfinite sets and the system ZFC; recursion theory and decidability.

MHF 5405 HISTORY OF MODERN MATHEMATICS (3)
PR: MAC 2313. Traces the development of mathematical ideas in Western culture. Special emphasis is placed on those concepts which led to the Calculus. This course is open to majors and non-majors alike.

MTG 4212 GEOMETRY -6A (4)
PR: MGF 3301 or CI. Emphasis on axiomatics, advanced Euclidean geometry, elements of projective geometry, non-Euclidean geometries. (No credit towards Mathematics major.)

MTG 4302 INTRODUCTION TO TOPOLOGY -6A (3)

MTG 5266 DIFFERENTIAL GEOMETRY (3)
PR: MAA 4211, MAS 3105. Exterior calculus, differentiable manifolds, integration of differential forms, surfaces in 3-space, covariant derivative, curvature, matrix groups.

MTG 5316 TOPOLOGY I (3)

MTG 5317 TOPOLOGY II (3)
PR: MTG 5316. The fundamental group; elements of homotopy theory and homology theory.

STA 2022 BASIC STATISTICS -6A -QM (3)
Basic philosophy of statistical thinking. Acquisition of data. Techniques for organizing and presenting statistical data. Sample mean, variance and standard deviation. Statistical decisions—estimation and hypothesis testing. Design of experiments, linear association and prediction. Statistical software. (No credit towards Mathematics major.)

STA 2023 INTRODUCTORY STATISTICS I -6A -QM (4)
PR: Two years of high school algebra. Descriptive statistics, basic probability principles, discrete and continuous probability distributions, binomial, normal, t, and chi-square; point estimation, confidence limits, and hypothesis testing. Emphasis on applications to social sciences, life sciences, physical sciences, engineering, and business. Students who successfully complete this course may not also receive credit for QMB 2150 or STA 2122. (No credit towards Mathematics major.)

STA 2024 INTRODUCTORY STATISTICS II -6A (3)
PR: STA 2023 or CC. Factorials, ANCOV; multiple curvilinear regression; response surfaces; Latin squares, Split Plot, incomplete designs; distribution free methods.

STA 4321 INTRODUCTION TO STATISTICS -6A (3)

STA 4442 INTRODUCTION TO PROBABILITY -6A (3)
PR: MAC 2313 or MAC 2283. Introduction to probability theory using calculus. Basic ideas of probability and random variables, discrete probability functions, continuous probability densities, joint distributions, transformations of random variables, moments and generating functions of random variables, and limit theorems.

STA 5166 COMPUTATIONAL STATISTICS I (3)
PR: STA 4321, CGS 3422 or CC. Statistical analysis of data by means of statistics package programs. Regression, ANOVA, discriminant analysis, and analysis of categorical data. Emphasis is on inter-relation between statistical theory, numerical methods, and analysis of real life data.

STA 5228 SAMPLING TECHNIQUES (3)

STA 5226 MATHEMATICAL STATISTICS (3)
PR: STA 5446. Sample distribution theory, point and interval estimation, optimality theory, statistical decision theory, and hypothesis testing.

STA 5446 PROBABILITY THEORY I (3)
PR: STA 4442 and MAA 4211 or CI. Axioms of probability, random variables in Euclidean spaces, moments and moment generating functions, modes of convergence, limit theory for sums of independent random variables.

STA 5526 NON-PARAMETRIC STATISTICS (3)
PR: STA 5326, CC. Topics may include: classical nonparametric statistical theory, nonparametric density estimation, nonparametric regression, generalized additive models, nonparametric pattern recognition, classification and regression trees.

Medical Technology

MLS 4031 INTRODUCTION TO MEDICAL TECHNOLOGY (1)
PR: Senior standing and acceptance into an approved affiliated hospital. A hospital clinical course on principles and methods of medical technology, including professional ethics, safety regulations, quality control, phlebotomy, medical terminology, laboratory math and computer applications.

MLS 4860 CLINICAL URINALYSIS AND BODY FLUIDS (2)
PR: Senior standing and acceptance into an approved affiliated hospital. A hospital clinical course on laboratory methodology and diagnosis using urine and other fluids such as semen, spinal, pleural, peritoneal and joint fluids.

MLS 4861 CLINICAL IMMUNOLOGY (2)
PR: Senior standing and acceptance into an approved affiliated hospital. A hospital clinical course on the tissues, cells, and molecules of the human immune system, emphasizing the detection of serum antibodies and disease states.

MLS 4862 CLINICAL HEMATOLOGY (6)
PR: Senior standing and acceptance into an approved affiliated hospital. A hospital clinical course on cellular components of the blood as related to laboratory diagnosis and disease, including blood coagulation and morphological and biochemical aspects of blood cells.

MLS 4863 CLINICAL MICROBIOLOGY (6)
PR: Senior standing and acceptance into an approved affiliated hospital. A hospital clinical course emphasizing pathogens response for disease in man, including anatomy, physiology, and laboratory diagnosis of bacteria, fungi, parasites and viruses.

MLS 4864 CLINICAL CHEMISTRY (6)
PR: Senior standing and acceptance into an approved affiliated hospital. A hospital clinical course on the analysis of chemical substances found in the body and related to the diagnosis of human disease, including topics such
as instrumentation, electrophoresis, therapeutic drug-monitoring assays, tumor markers, and toxicology.

**MLS 4855 CLINICAL IMMUNOHEMATOLOGY** (6)
PR: Senior standing and acceptance into an approved affiliated hospital. A hospital clinical course on blood and tissue typing, including blood group systems, transfusion associated disease, HLA testing, and preparation of blood components for transfusion therapy.

**MLS 4866 CLINICAL LABORATORY MANAGEMENT AND EDUCATION** (1)
PR: Senior standing and acceptance into an approved affiliated hospital. A hospital clinical course on concepts of laboratory management, including personnel staffing, reimbursements, quality assurance, and regulatory issues, and clinical education techniques, including writing, lecture presentation, and evaluation.

**Philosophy**

**PHI 2000 INTRODUCTION TO PHILOSOPHY** -6A -HP (3)
An introduction to selected philosophical problems and traditions.

**PHI 3062 HISTORY OF PHILOSOPHY: ANCIENT AND MEDIEVAL** (3)
A survey of Western philosophy from the pre-Socratics to the end of the Middle Ages.

**PHI 3420 HISTORY OF PHILOSOPHY: MODERN** (3)
A survey of Western philosophy from the end of the Middle Ages to the nineteenth century.

**PHI 4440 19TH CENTURY CONTINENTAL PHILOSOPHY** (3)
A study of developments in post-Kantian European philosophy.

**PHI 4600 CONTEMPORARY PHILOSOPHY** -6A -XMW (3)
Selected schools of twentieth century thought such as idealism, positivism, pragmatism, realism, and existentialism.

**PHI 4700 AMERICAN PHILOSOPHY** -6A -XMW (3)
Major traditions in American thought, Puritanism, the Enlightenment, Transcendentalism, Idealism, Pragmatism, and Analytic Philosophy in relation to American culture.

**PHI 1103 CRITICAL THINKING** -SS (3)
Methods of thinking that lead to reliable conclusions, with emphasis on concrete cases in ordinary thinking and the sciences.

**PHI 2100 INTRODUCTION TO FORMAL LOGIC** -6A -QM (3)
An elementary study of propositional, predicate, class and syllogistic logic with some attention to basic problems of logical theory.

**PHI 2800 ETHICAL THEORY** (3)
A study of ethical theories, concepts, problems and methods.

**PHI 2631 ETHICS AND BUSINESS** -SS (3)
An application of traditional ethical theories to contemporary problems in business.

**PHI 3404 SCIENTIFIC METHOD** (3)
Probability, inductive inference, the hypothetico-deductive method, experimentation, and selected topics in the philosophy of science.

**PHI 3601 CONTEMPORARY MORAL ISSUES** -6A -SS (3)
Open to all students. A study of contemporary moral issues concerning racism, sex, sexism, abortion, poverty, crime, war, suicide, and human rights in general.

**PHI 3633 BIOMEDICAL ETHICS** (3)
This course will focus on the ethical issues arising from advances in medical practice, delivery of health care, and scientific research.

**PHI 3636 PROFESSIONAL ETHICS** (3)
PR: Junior standing. An examination of the ethical problems that professionals will face in the complex, global society of the next few decades: confidentiality, divided loyalty, racism/sexism, etc.

**PHI 3640 ENVIRONMENTAL ETHICS** -SS (3)
A study of alternative theories of environmental ethics, including the application of these theories to contemporary environmental problems, such as pollution, resource depletion, species extinction, and land use.

**PHI 3700 PHILOSOPHY OF RELIGION** -6A -SS (3)
Analysis of religious experience and activity and examination of principal religious ideas in light of modern philosophy.

**PHI 3905 DIRECTED STUDY** (1-4)
PR: CI. Individual study directed by a faculty member. Approval slip from instructor required.

**PHI 3930 SELECTED TOPICS** (1-4)
PR: CI. Selected topics according to the needs of the student.

**PHI 4073 AFRICAN PHILOSOPHY** -XMW (3)
A descriptive and analytical study of African philosophical thought, featuring reflective comparisons of African and Western categories of thought. (May also be taken for credit in Africana Studies.)

**PHI 4300 THEORY OF KNOWLEDGE** -6A -XMW (3)
An examination of human knowledge; its scope and limits, and an evaluation of evidence, criteria of truth, the nature of belief, conditions for meaningfulness, theories of perception, and a study of memory and sense perception in the four major fields of nature, history, personal experience, and the a priori.

**PHI 4320 PHILOSOPHY OF MIND** -6A -XMW (3)
A study of historical and current issues in philosophy of mind, including the nature and status of mind, mind/body dualism, the relationship of mind and body, the problems of other minds, the physical basis for intelligence, etc.

**PHI 4602 CONTEMPORARY ETHICAL THEORY** (3)
A survey of contemporary ethical theory, focusing both on the literature about the status of ethical theorizing—moral skepticism, moral nihilism, narrative ethics—and on specific types of theories—deontological theories, consequentialist theories, rights-based theories, virtue theories.

**PHI 4632 FEMINIST ETHICS** -XMW (3)
A study of the varied approaches to moral reasoning taken by feminist ethical writers such as Wollstonecraft, Mill, Gilligan, Daly, Hoagland and others. (May also be taken for credit in Women’s Studies.)

**PHI 4800 AESTHETICS** -6A -XMW (3)
A study of traditional and contemporary aesthetic theories with emphasis on creative process, the nature of the art work, the aesthetic response, expressiveness, form and content, as well as art and morality.

**PHI 4905 DIRECTED STUDY** (1-4)
PR: CI. Individual study directed by a faculty member. Approval slip from instructor required.

**PHI 4930 SELECTED TOPICS** (1-3)
PR: CI. Selected topics according to the needs of the senior students. Approval slip from instructor required.

**PHI 5135 SYMBOLIC LOGIC**
PR: PHI 2100 or CI. Study of topics such as the following: Metatheory of propositional and predicate logic, related metatheoretic results, alternative logics.

**PHI 5225 PHILOSOPHY OF LANGUAGE** (3)
PR: Eight hours of philosophy, major in linguistics, or CI. An examination of semantic, syntactical, and functional theories of language with special attention given to the problems of meaning, linguistic reference, syntactical form, and the relations between scientific languages and ordinary linguistic usage. Seminar format.

**PHI 5913 RESEARCH** (1-4)
PR: CI. Individual research supervised by a faculty member. Approval slip from instructor required.

**PHI 5934 SELECTED TOPICS** (1-3)
PR: CI. Selected topics according to the needs of the student. Approval slip from instructor required.

**PHM 3100 SOCIAL PHILOSOPHY** -6A (3)
An analysis of moral questions of social order and their philosophical foundations.

**PHM 3400 INTRODUCTION TO PHILOSOPHY** (3)
A study of the fundamental concepts of law from a philosophical standpoint including crime, justice, punishment, free speech, insanity, etc.
Physics

PHY 2020 CONCEPTUAL PHYSICS -NS  (3)
A qualitative, non-mathematical investigation of physics, emphasizing its influence on life today. (No credit for Physics or Mathematics majors.)

PHY 2038 ENERGY AND HUMANITY -NS  (3)
Social, economic, and political aspects of energy. Includes energy conservation, environmental impact, energy-source alternatives, changing lifestyles, and personal use of solar energy. The relevant basic laws of physics and the scientific method are emphasized. Field trips and audiovisual presentations play important roles.

PHY 2048, 2048L GENERAL PHYSICS I (CALCULUS BASED) & LABORATORY  (3, 1)
PR: MAC 2281 or MAC 2311. First semester of a two semester sequence of general physics (mechanics, wave motion, sound, thermodynamics, geometrical and physical optics, electricity, and magnetism) and laboratory for physics majors and engineering students. Must be taken concurrently and, if dropped, then dropped simultaneously. May not receive credit for both the PHY 2053 and PHY 2048 courses.

PHY 2049, 2049L GENERAL PHYSICS II (CALCULUS BASED) & LABORATORY  (3, 1)
PR: MAC 2282 or MAC 2312, PHY 2048, PHY 2048L. Second semester of general physics and laboratory for physics majors and engineering students. Must be taken concurrently and, if dropped, then dropped simultaneously. May not receive credit for both the PHY 2054 and PHY 2049 courses.

PHY 2053, 2053L GENERAL PHYSICS & LABORATORY  (3, 1)
PR: MAC 2102 and MAC 2114, or MAC 2132. First semester of a two semester sequence of general physics (mechanics, heat, wave motion, sound, electricity, magnetism, optics, modern physics) and laboratory for science students. Must be taken concurrently and, if dropped, then dropped simultaneously. May not receive credit for both the PHY 2053 and PHY 2048 courses.

PHY 2054, 2054L GENERAL PHYSICS & LABORATORY  (3, 1)
PR: PHY 2053, PHY 2053L. Second semester of general physics and lab for science students. Must be taken concurrently and, if dropped, then dropped simultaneously. May not receive credit for both the PHY 2054 and PHY 2049 courses.

PHY 3101 MODERN PHYSICS  (3)

PHY 3221 MECHANICS I  (3)
CR: MAC 2283 or MAC 2313 and either PR: PHY 2048 or PHZ 2101. First semester of a two semester sequence. Review of vector algebra and vector calculus. Dynamics of single particles and systems of particles; central forces; rotation about an axis; statics; and virtual work.

PHY 3323C ELECTRICITY AND MAGNETISM I  (4)
PR: PHY 2049, MAC 2283 OR MAC 2313. Electrostatic fields and potentials, dielectrics, classical conductivity, RC circuits, Fourier and finite element methods. Laboratory. First semester of sequence PHY 3323C, PHY 4324C.

PHY 3424 OPTICS  (4)
PR: PHZ 2101 or PHY 2049; CR: MAC 2283 or MAC 2313. Reflection, refraction, dispersion, interference, diffraction, polarization, and laboratory.

PHY 4222 INTERMEDIATE ELECTRONIC LABORATORY  (2)
PR: PHZ 2101 or PHY 2049 or equivalent; CR: PHY 3101. Experiments in modern physics, including the area of atomic, nuclear, solid state and wave phenomena.

PHY 4031 GREAT THEMES IN PHYSICS -XMW  (3)

PHY 4222 MECHANICS II  (3)
PR: PHY 3221; CR: MAP 2302. Continuation of PHY 3221. Coupled oscillators and normal modes; moving coordinate systems; Lagrange's and Hamilton's equations; inertia tensor; general rotation of rigid bodies.

PHY 4324C ELECTRICITY AND MAGNETISM II  (4)
PR: PHY 3323C; CR: MAP 2302. Introduction to special relativity, magnetic fields and potentials, magnetic materials, RL and RLC circuits, Maxwell's equations and applications. Laboratory. Second semester of sequence PHY 3323C, PHY 4324C.

PHY 4523 STATISTICAL PHYSICS  (3)
PR: PHY 3101 or Ci. A statistical approach to thermodynamics and kinetic theory and introduction to statistical mechanics.

PHY 4604 INTRODUCTION TO QUANTUM MECHANICS  (3)
PR: PHY 3101, or Ci. Basic concepts of quantum mechanics with applications in atomic, nuclear, and condensed matter Physics.
**PHY 4744C INTRODUCTION TO ELECTRONICS AND TEST INSTRUMENTATION**

PR: General Physics or CI. Introduces the fundamentals of analog and digital electronics used in measurements and instrumentation. Weekly labs give hands-on experience in breadboarding electronic circuits and using test instrumentation (oscilloscopes, digital multimeters, computers, etc.)

**PHY 482L ADVANCED LABORATORY**

PR: PHY 3822L. Experimental work primarily related to nuclear physics. Emphasis on modern physical experimental techniques employing some of the new types of equipment.

**PHY 49405 INDEPENDENT STUDY**

PR: CI. Specialized, independent study determined by the student's need and interest. The written contract required by the College of Arts & Sciences specifies the regulations governing independent study. May be repeated. (S/U only.)

**PHY 4910 UNDERGRADUATE RESEARCH**

PR: Senior or advanced junior standing and CC. An individual investigation in the laboratory or library or both, under the supervision of the instructor. Credit hours and other contractual terms are to be determined by student/instructor agreement. (S/U only.)

**PHY 4930 PHYSICS SEMINAR**

PR: Senior or advanced junior standing and CC. Each topic is a course in directed study and under the supervision of a faculty member.

**PHY 5720C ELECTRONICS FOR RESEARCH**

PR: CI. A rigorous introduction to the fundamentals of analog and digital electronics. Theoretical circuit analysis and weekly labs introduce practical diodes, transistors, analog and digital ICs, breadboarding techniques and electronic test instrumentation.

**PHY 5937 SELECTED TOPICS IN PHYSICS**

PR: Senior or advanced standing and CC. Each topic is a course in directed study under the supervision of a faculty member.

**PHZ 2101 MATHEMATICAL ANALYSIS OF PROBLEMS IN MECHANICS AND ELECTRICITY**

CR: PHY 2053 and PHY 2054. MAC 2283 or MAC 2313. Designed for students who have taken the algebra-based general physics sequence (PHY 2053/2054) and want to seek credit for the calculus-based sequence (PHY 2048/2049). Review of mechanics and electricity emphasizing problems which involve the use of calculus.

**PHZ 2103 PROBLEMS IN GENERAL PHYSICS I**

CR: PHY 2048 or PHY 2053. First semester of two-semester sequence on solving problems in General Physics I. A course designed to be taken with the lecture course and to help students with developing problem-solving skills.

**PHZ 5115 METHODS OF THEORETICAL PHYSICS I**

PR: MAP 2302 or CI. Applications of mathematical techniques to classical and modern physics. Vector spaces including Hilbert space, orthogonal functions, generalized functions, Fourier analysis, transform calculus, and variational calculus.

**PHZ 5116 METHODS OF THEORETICAL PHYSICS II**

PR: MAP 2302 or CI. Applications of mathematical techniques to classical and modern physics. Selected topics in complex analysis, differential and integral equations, numerical methods, and probability theory.

**PHZ 5304 NUCLEAR PHYSICS**

PR: PHY 4604 or CI. Nuclear forces, nuclear models, nuclear structure, decay, nuclear reaction, and high energy physics.

**PHZ 5405 SOLID STATE PHYSICS I**

PR: PHY 3101, MAP 2302. Crystal structure, x-ray and electron diffraction, mechanical and thermal properties of solids, electrical and magnetic properties of metals, band theory of metals, insulators, and semiconductors. First semester of sequence PHZ 5405, PHZ 6426.

### Political Science

**CPO 2002 INTRODUCTION TO COMPARATIVE POLITICS -SS**

Introduction to politics in different states; comparison and analysis of representative European and non-Western political systems.

**CPO 4034 POLITICS OF THE DEVELOPING AREAS**

An analysis of the ideologies, governmental structures, and political processes of selected nations of the non-Western world.

**CPO 4930 COMPARATIVE GOVERNMENT AND POLITICS OF SELECTED COUNTRIES OR AREAS**

Studies political systems with common elements. Structure, process, domestic and foreign politics, and regional roles are considered. May be repeated up to 9 credit hours as topics vary.

**CPO 5934 SELECTED TOPICS IN COMPARATIVE POLITICS**

Studies specific substantive areas in comparative politics such as political economy or the politics of specific countries or regions. May be repeated for credit as topics vary.

**INR 2002 INTRODUCTION TO INTERNATIONAL RELATIONS**

Concepts and analytical tools applied to events such as politics among nations, control of foreign policies, types of actors, war and peace.

**INR 3102 AMERICAN FOREIGN POLICY**

Analysis of the development and scope of United States foreign policy, emphasizing goals and objectives, policy formulation and implementation, themes and issues.

**INR 4035 INTERNATIONAL POLITICAL ECONOMY**

Analysis of the development and politics of the international economic system, focusing on questions of cooperation and conflict in trade, aid, and investment relationships.

**INR 4254 AFRICA IN WORLD AFFAIRS**

An examination of Africa's place and role in world affairs including an analysis of the impact of external forces, international relations in post-colonial Africa, the relations of African states with the major World Powers, the UN and its agencies.

**INR 4334 DEFENSE POLICY**

Analytic institutional factors contributing to formulation of defense policy and the impact of such policy on international relations.

**INR 4403 INTERNATIONAL LAW**

Examines essential components of the international legal system; recognition; succession; war and peace, etc. Introduces the student to legal reasoning as employed in the international context.

**INR 4502 INTERNATIONAL ORGANIZATIONS -SS -AF**

Study of the operations and structure of international organizations and effects on world politics; background and achievement of the UN; regional organizations and multinational corporations.

**INR 5086 ISSUES IN INTERNATIONAL RELATIONS**

Explore specific topics and provides the student with an opportunity for in-depth study of historical and contemporary problems in international politics. May be repeated for credit as topics vary.

**POS 2041 AMERICAN NATIONAL GOVERNMENT**

Analysis of basic principles and procedures of the American governmental system with emphasis on current issues and trends.

**POS 2080 THE AMERICAN POLITICAL TRADITION -SS -HP**

This course is an introductory survey of the historical developments and changes in American political institutions, processes, and thought.
POS 2112 STATE AND LOCAL GOVERNMENT AND POLITICS (3)
Analysis of the structure and function of state and local governments, of the social and political influences that shape them, and of the dynamics of their administrative processes.

POS 3114 INTRODUCTION TO URBAN POLITICS AND GOVERNMENT (3)
Governmental and political structures and processes as they function in urban areas, with special focus on municipalities and locally based public services.

POS 3165 GOVERNMENT METROPOLITAN AREAS (3)
Examines governmental units and interactions in metropolitan areas, proposals for changes in governance, and policy areas of area-wide concern, such as human services.

POS 3173 SOUTHERN POLITICS (3)
Examines changes in electoral politics in the South, and the role of interest groups and the state and federal government in facilitating change.

POS 3182 FLORIDA POLITICS AND GOVERNMENT (3)
A study of Florida political culture, political parties and elections, the legislative, executive, and judicial systems, and policy patterns.

POS 3273 PRACTICAL POLITICS (3)
PR: POS 2041 or POS 3453 or CI. Coordinated scholarly and practical activity through class lecture and supervised field work in local political parties and election campaigns.

POS 3283 JUDICIAL PROCESS AND POLITICS (3)
The organization, development, and functioning of American court systems and the causes and consequences of judicial behavior from an empirical perspective.

POS 3453 POLITICAL PARTIES AND INTEREST GROUPS (3)
Analysis and understanding of role, functions, structure, and composition of such, and their impact on American governmental institutions.

POS 3691 INTRODUCTION TO LAW AND POLITICS (3)
Nature of law, legal process, relationship to political life of constitutional law, administrative law, the judicial process, and private law.

POS 3697 ENVIRONMENTAL LAW (3)
This course examines some of the major issues involving environmental law. Specially, the course provides a survey and analysis of statutes, both state and federal, regulating water, air, soil pollution, and resource conservation and recovery. The course will also address questions pertaining to problems of implementation, interpretation, enforcement, and development of environmental laws.

POS 3713 EMPIRICAL POLITICAL ANALYSIS (3)
Fundamentals of empirical political inquiry: systematic data collection and quantitative analysis techniques. Laboratory exercises using the computer are required.

POS 3931 SELECTED TOPICS (3)
Selected topics in political science with course content based upon student demand and instructor’s interest. May be repeated for up to 6 credits as topics vary.

POS 4165 COMMUNITY LEADERS AND POLITICS (3)
Analysis of the roles and powers of mayors, city managers, council members, and interest and ethnic groups; distribution of community power.

POS 4204 POLITICAL BEHAVIOR, PUBLIC OPINION, AND ELECTIONS (3)
Analysis of economic and socio-psychological factors influencing mass and elite political behavior; voting behavior, public opinion, and political activism.

POS 4413 THE AMERICAN PRESIDENCY-6A (3)
The presidency as a political institution, analysis of presidential legislative, administrative, political, and foreign policy leadership; crisis management and decision-making; White House staffing; limits on power.

POS 4424 THE AMERICAN CONGRESS (3)
Organization, procedures, committee system, party leadership, relationships with governmental and non-governmental organizations and agencies, oversight, decision-making processes, House/Senate comparisons.

POS 4614 CONSTITUTIONAL LAW I (3)
PR: POS 2041. Leading social problems, principle institutions, and the scope of powers. Analysis of Supreme Court decisions, scholarly commentaries, and the writings of leading public figures.

POS 4624 CONSTITUTIONAL LAW II (3)
PR: POS 2041. Analysis of Supreme Court decisions and scholarly commentaries on the constitutional rights of individuals.

POS 4693 WOMEN AND LAW I (3)
Introduction to issues concerning the legal aspects of sex and sex-based discrimination as embodied in statutory and case law, focusing on constitutional and family law and reproductive freedom issues. (May also be taken for credit in Women’s Studies.)

POS 4694 WOMEN AND LAW II - 6A -XMW
PR: POS 4693 or CI. Legal position of women in American society and remedies available to challenge current laws and practices, with specific emphasis on employment and education issues as they relate to both women and men. (May also be taken for credit in Women’s Studies.)

POS 4905 INDEPENDENT STUDY (1-3)
PR: 3.0 average in Political Science and CI. Specialized study determined by the student’s needs and interests. (S/ U only)

POS 4910 INDIVIDUAL RESEARCH (1-3)
PR: 3.0 average in Political Science and CI. Investigation of some aspect of political science culminating in the preparation of an original research paper.

POS 4936 SENIOR SEMINAR (3)
PR: Senior standing and CI. An opportunity to work with others in a seminar format, exploring specialized topics.

POS 4941 FIELD WORK (3)
PR: 3.0 average in Political Science and CI. Opportunity for students to obtain practical experience as aides to agencies of government and political parties.

POS 4970 HONOR THESIS (3)
PR: Admission to Honor option. Writing of honor thesis under direction of faculty members.

POS 5094 ISSUES IN AMERICAN NATIONAL AND STATE GOVERNMENT (3)
Selected topics of study in American government. May be repeated for credit as topics vary.

POS 5155 ISSUES IN URBAN GOVERNMENT AND POLITICS (3)
Selected issues and topics in Urban Government and Politics. May be repeated for credit as topics vary.

POS 5736 POLITICAL RESEARCH METHODS (3)
A survey of methods, problems, and issues in political research and analysis for the advanced student.

POT 3003 INTRODUCTION TO POLITICAL THEORY (3)
Examines various kinds of theory used in political science for understanding political life: normative theory, empirical theory, historicist theory, analytical theory, and critical theory.

POT 3013 CLASSICAL POLITICAL THEORY (3)
Analysis of basic ideas of Plato, Aristotle, Cicero, St. Thomas, and other leading pre-modern political philosophers.

POT 4054 MODERN POLITICAL THEORY (3)
Analysis of basic political ideas of Machiavelli, Hobbes, Locke, Rousseau, Burke, and other modern philosophers.

POT 4064 CONTEMPORARY POLITICAL THOUGHT (3)
Examines various political views and political phenomena in the nineteenth and twentieth centuries. Diverse theoretical types and salient political phenomena will be presented.

POT 4070 POLITICAL IDEAS AND LITERATURE - 6A -XLW
Critical examination of the connections between politics and literature.

POT 4204 AMERICAN POLITICAL THOUGHT (3)
Examines political writings in the U.S. and responses to critical periods in history, beginning with the Founding Fathers, and culminating in recent theoretical contributions and understanding contemporary political problems and solutions.
POT 4661 THE POLITICS OF IDENTITY, DIFFERENCE AND INEQUALITY -XMW (3)
PR: POT 3003. An analysis of how relationships of social identity and difference become the basis of social, political and economic inequality in modern society. It incorporates both contemporary and "classical" discussions of inequality.

POT 4938 SELECTED TOPICS IN POLITICAL THEORY (3)
Selected topics or thinkers in political theory.

POT 5626 ISSUES IN POLITICAL PHILOSOPHY AND LAW (3)
PR: Graduate or senior standing and CI. Selected topics in political philosophy and law. May be repeated as topics vary.

PUP 3313 BLACKS IN THE AMERICAN POLITICAL PROCESS (3)
An examination of the political experience of Blacks in the American political process including their political socialization, and struggle to become effective participants in the American political process. (May also be taken for credit in Africana Studies.)

PUP 4002 PUBLIC POLICY (3)
Examines the formation and implementation of public policy in areas such as the economy, health, etc.

PUP 4203 ENVIRONMENTAL POLITICS AND POLICY (3)
Examines the politics of environmental issues, formation and implementation of environmental policy.

PUP 4323 WOMEN AND POLICIES - SS -XMW (3)
An analysis of the impact of gender on power and influence in American society, and women's changing role in the political process. (May also be taken for credit in Women's Studies.)

PUP 5607 PUBLIC POLICY AND HEALTH CARE (3)
The study of health care policy as it relates to the policy process in the American setting.

URP 4050 CITY PLANNING AND COMMUNITY DEVELOPMENT (3)
An introduction to the development, role, and components of city planning, and the political and actual policies of government in attempting to regulate or control urbanization.

Psychology

CBH 4004 COMPARATIVE PSYCHOLOGY (3)
PR: PSY 3213 with a grade of C or better or CI. The study of differences of behavior, similarities, and differences in capacities for environmental adjustment and for behavioral organization among important types of living beings.

CLP 3003 PSYCHOLOGY OF ADJUSTMENT -SS (3)
Genetic, organic, and learned factors involved in the processes of personal adjustment: applications of mental health principles to everyday living. Not for major credit.

CLP 4143 ABNORMAL PSYCHOLOGY (3)
PR: PSY 3213 with a grade of C or better or CI. Descriptions, theoretical explanations, research evidence, and treatment of maladaptive behavior.

CLP 4414 BEHAVIOR MODIFICATION (3)
PR: PSY 3213 with a grade of C or better or CI. Introduction to behavior analysis, and application of learning principles, behavioral measurement, research designs, and interventions in treatment settings.

CLP 4433 PSYCHOLOGICAL TESTS AND MEASUREMENT (3)
PR: PSY 3213 with a grade of C or better or CI. A consideration of the instruments for intellectual and personality assessment including their applications, development, and potential abuses. Students may not receive credit for both CLP 4433 and EDF 4430.

DEP 2103 CHILD PSYCHOLOGY -SS (3)
Developmental and psychosocial aspects of childhood, including hereditary, maturation, psychological, and social determinants of child behavior. Not for major credit.

DEP 4005 DEVELOPMENTAL PSYCHOLOGY (3)
PR: PSY 3213 with a grade of C or better or CI. Survey of methods, empirical findings, and theoretical interpretations in the study of human development.
PSY 3213 RESEARCH METHODS IN PSYCHOLOGY (4)
PR: PSY 3044 or CI. This course considers the logic of experimental design, control of concept and the analysis of experimentally obtained data. The laboratory section provides experience applying the concepts discussed in lecture. Two lectures plus two-hour lab. May be taken concurrently with PSY 3044.

PSY 4205 EXPERIMENTAL DESIGN AND ANALYSIS (3)
PR: PSY 3213 with grade of C or better or CI. Detailed coverage of those research designs and statistical techniques having the greatest utility for research problems in psychology. Emphasis on topics from analysis of variance.

PSY 4604 HISTORY AND SYSTEMS OF PSYCHOLOGY (3)
PR: PSY 3213 with a grade of C or better or CI. The historical roots of modern psychological theories, investigation of the various schools of psychology such as behaviorism, Gestalt psychology, psychoanalysis, and phenomenological psychology.

PSY 4913 DIRECTED STUDY (1-3)
PR: Upper-level standing, psychology major and CI. The student plans and conducts an individual research project or program of directed readings under the supervision of a faculty member. (S/U Only.)

PSY 4931 SELECTED TOPICS: SEMINAR (3)
PR: Upper-level standing, psychology major and CI. Graduate-type seminar designed to provide the advanced undergraduate student with an in-depth understanding of a selected sub-area within psychology. May be repeated with a maximum of six (6) hours credit for the major.

PSY 4932 HONORS SEMINAR (3)
PR: Admission to honors program in psychology and CI. The student, under supervision of a faculty member, will formalize, conduct, analyze, and report in writing a research project in psychology. May be repeated with a maximum of 6 hours credit. May not count for major credit.

PSY 4970 HONORS THESIS (1-3)
PR: Admission to honors program in psychology and CI. The student under supervision of a faculty member will formalize, conduct, analyze, and report in writing a research project in psychology. May be repeated with a maximum of 6 credit hours.

SOP 3742 PSYCHOLOGY OF WOMEN -SS (3)
An examination of theories of female personality in historical and developmental perspectives. Current research on sex differences, socialization, sexuality, psychology of reproduction. Emerging roles of women as related to social change and developmental tasks of the life cycle. (Also offered under Women's Studies.)

SOP 4004 SOCIAL PSYCHOLOGY (3)
PR: PSY 3213 with a grade of C or better or CI. Survey of methods, empirical findings, and theoretical interpretations in the study of an individual's behavior as it is affected by others.

SOP 4714C ENVIRONMENTAL PSYCHOLOGY (3)
PR: PSY 3213 with a grade of C or better or CI. Explores the influences of environment on behavior. Topics considered include crowding, privacy, territorial behavior, environmental design, and pollution effects. Designed for both psychology majors and non-majors.

Public Administration

PAD 3003 INTRODUCTION TO PUBLIC ADMINISTRATION -SS (3)
Examination of organizational behavior and change, policy process, public management, financial administration, and personnel management from the perspective of public and social delivery.

PAD 4004 PUBLIC FINANCIAL ADMINISTRATION (3)
Analysis of problems in the growth and development of public budgetary theory and Federal budgetary innovations.

PAD 5035 ISSUES IN PUBLIC ADMINISTRATION AND PUBLIC POLICY (3)
Selected issues and topics in Public Administration and Public Policy. May be repeated for credit as topics vary.

PAD 5333 CONCEPTS AND ISSUES IN PUBLIC PLANNING (3)
PR: URP 4050 or URP 6056. Analysis of basic concepts, issues, and strategies of planning; policy determination, collection of information, and decision-making.

PAD 5605 ADMINISTRATIVE LAW (3)
An examination of the constitutional and statutory bases and limitations of the administrative process, administrative adjudication, rule making, and the judicial review of such actions.

PAD 5612 ADMINISTRATIVE REGULATION (3)
Analysis of the regulatory functions and processes in the American political system: regulatory commissions, their functions, powers, management, reforms, and relationship with other branches of government.

PAD 5700 RESEARCH METHODS IN PUBLIC ADMINISTRATION (3)
This course provides the student with the fundamental skills and knowledge of how research is designed, implemented, analyzed, and utilized in public sector agencies. Available to majors and non-majors.

PAD 5807 ADMINISTRATION OF URBAN AFFAIRS (3)
Analysis of the role of the administrator at the municipal level; the division of functions; policy formation; alternative governmental structures; effects on the administrative process.

PAD 5836 COMPARATIVE PUBLIC ADMINISTRATION (3)
How organizations and managers perform within a particular environment, potential impact of innovation, and how service is accomplished in a variety of socio-economic environments.

Rehabilitation and Mental Health Counseling

RCS 5035 REHABILITATION COUNSELING: CONCEPTS AND APPLICATIONS (3)
PR: CC. Introduction to the profession of Rehabilitation Counseling and current issues in the field. Coverage includes rehabilitation history, legislation, case management, and related services for Americans with disabilities.

RCS 5080 MEDICAL ASPECTS OF DISABILITY (3)
A survey of medical conditions and disabilities encountered by rehabilitation and mental health counselors. Examines the relationship of client handicaps, physical and mental, to rehabilitation and mental health programming.

RCS 5004 FOUNDATIONS OF MENTAL HEALTH COUNSELING (3)
A skill-building course on the utilization of one's self in mental health counseling relationships. Includes the study of the origin, history, professional functions, and current issues in the discipline of mental health counseling.

RCS 5406 HUMAN GROWTH AND DEVELOPMENT (3)
Human development theory as applied in psychotherapy and case management rehabilitation, mental health, and addiction settings.

RCS 5450 SUBSTANCE ABUSE (3)

RCS 5700 LEGAL, ETHICAL, PROFESSIONAL STANDARDS AND ISSUES IN COUNSELING (3)
An overview of all aspects of professional functioning including history, roles, organizational structures, ethics, standards, and credentialing. Contemporary and developing issues in the field of professional counseling will also be addressed.

RCS 5905 DIRECTED STUDIES (1-4)
PR: CI. Supervised rehabilitation studies under the direction of a faculty member. Rpt. to 8 hours.
REL 3131 NEW RELIGIONS IN AMERICA
A course designed to allow the student to survey the wide spectrum of contemporary sects and cults and learn what motivates their development.

REL 3132 WITCHCRAFT AND PAGANISM IN AMERICA
A study of contemporary witchcraft and paganism, including theories, methods, history, myths and symbols, beliefs, rituals and practices, believers, recruitment, socialization, and organizations.

REL 3145 WOMEN AND RELIGION - 6A
Analysis of the status and roles of women as compared to men in the Judeo-Christian tradition. Contemporary issues of feminist theology, and the controversies surrounding them. (May also be taken for credit in Women’s Studies.)

REL 3146 THE RELIGIOUS QUEST IN CONTEMPORARY FILMS - 6A - SS - HP
This course will use contemporary films such as Gandhi, Malcolm X, The Long Walk Home, The Color Purple, The Leap of Faith, The Chosen, and Grand Canyon, to explore the personal and social dimensions of religion in modern secular societies, with an emphasis on issues of racism, sexism and human liberation and reconciliation.

REL 3147 NATIVE AMERICAN RELIGIONS
Introduction to and a survey of Native American religions. A variety of multiplicity of perspectives, including anthropological, historical, social psychological, sociological, and philosophical.

REL 3148 WOMANIST VISION IN RELIGION - XMW
This course examines the works of Black Womanist writers in religion for their contributions to and insights into the phenomena of religion in America and the world.

REL 3150 RELIGION AND THE MEANING OF LIFE - 6A - XMW
What is the meaning of life? An exploration of answers to this question in Eastern and Western religions, and in humanistic philosophies of life.

REL 3155 LIFE AFTER DEATH - 6A
An exploration of ideas about life after death and its relations to this life, in Judaism, Christianity, Islam, Hinduism, and Buddhism.

REL 3170 RELIGION, ETHICS AND SOCIETY THROUGH FILM - 6A - HP - SS
An ethical analysis of contemporary social issues through contemporary films, drawing on religious narrative traditions from Eastern and Western cultures which have contributed to the development of an ethic of human dignity, human rights and human liberation after Auschwitz and Hiroshima.

REL 3280 BIBLICAL ARCHEOLOGY - XMW
An in depth examination of the archaeological data relating to the background and content of the Bible, including ancient customs, Biblical sites and cities, Biblical history, and material culture of the Biblical period. Special attention will also be given to excavation methods and interpretation of archaeological evidence.

REL 3303 COMPARATIVE RELIGION: JUDAISM AND ISLAM - XMW
Comparing Judaism and Islam through the study of the classical documents of the legal system of the two religions. A large-scale labor of comparison and contrast: how are Judaism and Islam alike? how are they different? what do we learn from the likeness? what do we learn from the difference? Issues of borrowings and dependence are not addressed, the two systems being described, analyzed, and interpreted and them compared as free-standing coherent wholes.

REL 3310 WORLD RELIGIONS
An introduction to and a comparison of the ideas, the literature and institutions of the major religions of the world including Judaism, Christianity, Islam, and Buddhism from the Far East. General comparison of Western and Eastern beliefs.

REL 3330 THE RELIGIONS OF INDIA - AF - SS
All religions of the world came to India and all became
REL 3900 DIRECTED READINGS (1-4)  
PR: CI. Individual guidance in concentrated reading on a selected topic.

REL 3921 COLLOQUIUM (1)  
This colloquium will be held in order to bring all religious studies faculty and undergraduate majors together to discuss research of a particular faculty member, student, or guest scholar. May be repeated up to 3 semester hours. (S/U only.)

REL 3936 SELECTED TOPICS (3)  
PR: CI. Course contents depend on students' needs.

REL 4113 THE HERO AND RELIGION -XMW (3)  
A study of the role of religion, in which embedded religious models help to fashion the representation of an heroic protagonist. The focus of the course will be on the relationship between the hero and the "other," as differentiated by race, gender, ethnicity, or merely inner being.

REL 4133 MORMONISM IN AMERICA (3)  
A study of Mormonism in America as an example of a new religion. Includes the study of history, myths and symbols, texts, beliefs, rituals and practices, believers, recruitment, socialization, and organizations.

REL 4161 RELIGION, TECHNOLOGY AND SOCIETY (3)  
An exploration of the way in which religion and technology have interacted in Western civilization so as to both express and transform human values and identity. Special emphasis will be given to the value questions raised by modern technology.

REL 4171 CONTEMPORARY CHRISTIAN ETHICS -6A  
PR: Jr. standing or CI. This course will survey several major approaches to contemporary Christian ethics and their application to a number of ethical issues peculiar to personal and social life in contemporary society.

REL 4193 COMPARATIVE MYSTICISM (4)  
A course designed to acquaint the student with the nature of mystical experience, and some of the varieties of mystical experience recorded in the writings of the mystics.

REL 4224 HEBREW BIBLE II/PROPHETS AND WRITINGS  
PR: REL 3210 or REL 4221 or CI. An investigation of the prophetic movement and the historical and cultic writings in Israel from the point of view of theological developments, history presupposed, and the religious institutions depicted. Special attention is given to a theme such as Job and the problem of evil.

REL 4225 NEW TESTAMENT I: GOSPELS, ACTS (4)  
An exploration of the Gospels and Acts, including their background in Judaism, the pagan religion, literature, and form criticism, historical Jesus research, and the social history of earliest Christianity.

REL 4250 JESUS' LIFE AND TEACHINGS (4)  
PR: CI. An examination of the various historical studies made in the quest of identifying Jesus as an historical figure. The concern is to make a reasonable assessment of who Jesus was and what he was saying to the Jews in Palestine at the beginning of the common era.

REL 4252 NEW TESTAMENT II: THE LETTERS OF PAUL AND OTHER NEW TESTAMENT WRITINGS (4)  
PR: REL 4244 or REL 3240 or CI. An investigation of the phenomenon of earliest Christianity in its Pauline and non-Pauline forms, particularly as reflected in Paul's letters and in other writings of the New Testament. Special attention is given to the program of Apocalyptic, as in the book of Revelation.

REL 4333 HINDUISM (4)  
The philosophy of the saints; the complex rituals of the Brahmins; the art of its temples; the psychology and physiology of yoga; the social rigidity of the caste system; the esoteric science of meditation; the ascetic activism of Mahatma Gandhi—all of these are Hinduism, and more. Close readings of classical texts, philosophic systems and medieval poems.

REL 4343 BUDDHISM IN INDIA, SRI LANKA, AND SOUTH EAST ASIA (4)  
The life and teachings of the Buddha; the order of monks and nuns; the Buddhist Emperor Ashoka; schisms; the rise of the Great Vehicle and the philosophy of emptiness; Buddhist missions; Buddhist art and culture; Buddhism and national liberation; contemporary social and political issues.

REL 4344 BUDDHISM IN CHINA, JAPAN, AND TIBET (4)  
Mahayana Buddhism followed the silk routes to China and Japan, and later it crossed the Himalayas into Tibet. An overview of the variety of schools and practices of Buddhism and its adaptation by these ancient cultures.

REL 4508 FROM MYTH TO CHRISTIANITY (4)  
Study of the religions/mythologies of the ancient Middle East and Eastern Mediterranean and how their influences shaped the theology and practices of Christianity up to the end of the fourth century; influences many of which continue to be evident in the traditional Roman and Eastern Orthodox churches.

REL 4526 REASON IN RELIGION: TALMUDIC LOGIC -XMW (3)  
Analyzes the modes of thought and of logical analysis of the Talmud of Babylonia; the way in which applied logic and practical reason work in a religious definition of the social order; the dialectical argument.
### Social Work

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<td>SOW 3102</td>
<td>HUMAN BEHAVIOR AND THE SOCIAL ENVIRONMENT II</td>
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<td>SOW 3203</td>
<td>THE AMERICAN SOCIAL WELFARE SYSTEM -SS</td>
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**Social Work**

SOW 3101 HUMAN BEHAVIOR AND THE SOCIAL ENVIRONMENT (4)

PR: All pre-core and foundation courses. CR: SOW 4522 and SOW 4341. Restricted to Social Work majors, others by School permission. An integrating human behavioral-social environment course emphasizing dynamics of behavior and environmental factors as they relate to social work practice with individuals.

SOW 3102 HUMAN BEHAVIOR AND THE SOCIAL ENVIRONMENT II (4)

PR: SOW 3101, SOW 4341 and SOW 4522. CR: SOW 4343 and SOW 3401. Restricted to Social Work majors; others by School permission. An integrating course emphasizing dynamics of behavior and environmental factors as they relate to social work practice with families, groups, organizations and communities.

SOW 3203 THE AMERICAN SOCIAL WELFARE SYSTEM -SS (3)

A general education introductory course which provides students with a framework for understanding the historical development of American social welfare, its value base, and its response to minorities, women, children, the elderly, and the disabled.

SOW 3302 INTRODUCTION TO SOCIAL WORK (3)

An introductory course tracing the development of social work as a profession including an examination of the knowledge, skill and attitudinal base of the profession and professional roles and functions.

SOW 3401 RESEARCH AND STATISTICS FOR SOCIAL WORK (4)

PR: SOW 3101, SOW 4341 and SOW 4522. CR: SOW 3102 and SOW 4343. Restricted to Social Work majors, others by School permission. The purpose of this course is two-fold: to familiarize the student with research as it is practiced in the profession of Social Work; and to equip the student with those theoretical understandings necessary to be a critical consumer of social work research.

SOW 4343 MULTI-METHODS OF SOCIAL WORK (5)

CR: SOW 3101; SOW 4522. Restricted to Social Work majors; others by School permission. First practice course emphasizing development of skills and interventive methods with individuals, families and small groups. Course includes both didactic and experiential learning components.

SOW 4344 PRACTICE II: MACRO-SYSTEM INTERVENTION (5)

PR: SOW 3101, SOW 4522, and SOW 3101. CR: SOW 3401 and SOW 3102. Restricted to Social Work majors, others by School permission. Second practice course emphasizing intervention at the community and organizational level. Builds upon theoretical and practical content of SOW 4341. Course includes both didactic and experiential learning components.

SOW 4510 INTEGRATIVE SEMINAR (3)

PR: Completion of all social work core courses except SOW 4233, CR: SOW 4510L. Restricted to social work majors in Senior year. An integrated practice seminar which constitutes the third and final course in the practice sequence.

SOW 4510L FIELD PLACEMENT (6)

PR: Completion of all social work core courses except SOW 4233. CR: SOW 4510. Restricted to Social Work majors in Senior year. Supervised field placement in a social welfare organization consisting of 32 hours per week in the field. (SU only.)

SOW 4522 MULTICULTURAL AMERICA (3)

PR: SOW 3203, SOW 3302. CR: SOW 3101, SOW 4341. The course focuses on the students' understanding of multicultural and intergenerational issues.

SOW 4560 DIRECTED RESEARCH (1-9)

PR: Completion of four social work courses including SOW 3401, upper level standing, and School permission. Content dependent upon student interest and ability. A contract will be jointly developed by student and instructor specifying nature of work to be completed. May be repeated up to 9 credit hours.

SOW 4910 DIRECTED RESEARCH (1-6)

PR: Completion of four social work courses including SOW 3401, upper level standing and School permission. Directed Research is intended to provide students with research experience in areas of specific interest in social work. A contract will be developed between student and instructor specifying the nature of work to be completed. Majors only.

SOW 4930 VARIABLE TOPICS IN SOCIAL WORK (1-3)

Restricted to Social Work majors; others by School permission. Variable title courses to expand on the four sequence areas in the Social Work core curriculum. Allows focus on areas relevant to student's educational interest.

SOW 5930C SELECTED TOPICS IN SOCIAL WORK (1-4)

Restricted to Social Work majors, both graduate and undergraduate; others by School permission. Course is taken as an elective. Variable title courses will selectively expand specific social work content areas. May be repeated in varying topic areas.

### Sociology

SYA 3010 CLASSICAL THEORY (3)

PR: SYG 2000 or Cl. The analysis of the philosophical foundations, central principles, and historical development of sociological theory. Required for Sociology majors and minors.

SYA 3015 CONTEMPORARY THEORY (3)

PR: SYA 3010 and SYG 2000 or Cl. An examination of recent trends in sociological theory. Emphasis is on theories examining symbolic interactions, lived experience, popular culture and social structures.

SYA 3300 RESEARCH METHODS (3)

PR: STA 2122 or its equivalent. Introduction to the scientific method and its application to social science research.
Research design, sampling techniques, and critical evaluation of research. Required for Sociology majors or minors.  

SYG 3310 QUALITATIVE INQUIRY -6A-XLW  
PR: SYG2000 or CI. Exploration of human relationships and behaviors, organizations, and the larger culture through research techniques such as interviews, participant observation, life histories, and narratives. Permit required.  

SYA 4303 VISUAL SOCIOLOGY  
PR: SYG2000 or CI. An investigation of the relationship between visual representation (especially photography) and our understanding of the social world.  

SYA 4430 COMPUTERS IN THE SOCIAL SCIENCES  
PR: SYG2000 or CI. The use of computers in sociological research. Major emphasis is upon the use of statistical packages (principally SPSS) in data analysis.  

SYA 4910 INDIVIDUAL RESEARCH  
PR: SYG2000, SYA3010, SYA3300 plus 6 hours of sociology electives. The opportunity for senior Sociology majors to apply theory and methods to a selected topic of concern in today's society. Topic changes by instructor. Majors only. Permit required.  

SYA 4930 TOPICS IN SOCIOLOGY  
PR: SYG2000 or CI. Selected specialized topics in sociology. Topics such as AIDS in society, drugs in society, problems in education, sociology of childhood, public life, sexualities, sociobiocontent. Content will vary by semester and by section. See class schedule for specific contents each semester. This course in different content areas, may be repeated for credit.  

SYA 4935 SENIOR SEMINAR-XMW  
PR: Senior standing, SYG2000, SYA3010, SYA3300 plus 6 hours of sociology electives. The opportunity for senior Sociology majors to apply theory and methods to a selected topic of concern in today's society. Topic changes by instructor. Majors only. Permit required.  

SYA 4949 SOCIOLOGICAL INTERNSHIP  
PR: Senior or graduate standing in Sociology plus CI. Supervised placement in community organization or agency for a minimum of 10 hours of volunteer work per week, and a weekly seminar applying sociological skills and methods in the placement setting. May be repeated for credit.  

SYD 3441 PEASANT PERSPECTIVES - AF  
PR: SYG2000 or 6 hours of other Social Science Gen. Ed coursework or CI. Examines the applicability of sociological concepts to peasant life around the world, and explores the roles played by "western" societies in creating and sustaining the conditions under which peasants live.  

SYD 3700 RACIAL AND ETHNIC RELATIONS - SS -HP  
PR: SYG2000 or CI. Comparative study of interracial relations, social tensions, attitudes, and modes of adjustment in various areas of the world.  

SYD 4020 GLOBAL POPULATION  
PR: SYG2000 or CI. Upper level standing. Sociological determinants of fertility, mortality and migration; theories of population change.  

SYD 4410 URBAN SOCIOLOGY  

SYD 4800 GENDER AND SOCIETY  
PR: SYG2000 or CI. Upper level standing. Historical and contemporary exploration of current issues relevant to sex roles in America. Emphasis on sex role differences, interpersonal relationships and institutional participation. (Also offered under Women's Studies).  

SYG 2000 INTRODUCTION TO SOCIOLOGY -SS  
PR: SYG2000 or CI. An introduction to sociological perspectives and methods and the basic areas of sociological interests such as socialization, gender, race and ethnic relations, deviance, social control, and social stratification. Required for Sociology majors and minors.  

SYG 2010 CONTEMPORARY SOCIAL PROBLEMS -SS  
PR: SYG2000 or CI. The analysis of social causes and dimensions of major public issues such as crime, the environment, inequality, gender, employment, and substance abuse.  

SYG 2412 MARRIAGE  
PR: SYG2000 or CI. Study of pre-marital relations. Social, cultural, and personal factors related to success and failure in mate selection and marriage. Does not count for Sociology major credit.  

SYG 3120 SOCIOLOGY OF FAMILIES  
PR: SYG2000 or CI. With a goal to understand American families in the present, this course will examine variations in family types by social class, race, ethnicity, and historical era. Exploration of current controversies about how families should be organized and about what they should do for their members as well as social policies related to families.  

SYO 3200 SOCIOLOGY OF RELIGION  
PR: SYG2000 or CI. An examination of the meanings of religion in lived experiences in the contemporary United States. Includes the construction and maintenance of religious meanings and communities, the impact of those meanings and communities on daily lives, use and impact of religious discourse in daily lives, social movements motivated by religious beliefs.  

SYO 3260 LATINA LIVES  
PR: SYG2000 or CI. An exploration of the experiences of Latinas in the United States. Uncover and examine such sociological themes as oppression, migration, work, family, activism, spirituality, and sexuality through short stories, poetry, and scholarly research.  

SYO 3500 SOCIAL ORGANIZATION  
PR: SYG2000 or CI. Social organization in the broadest sense, including institutions and associations, as well as variations in role and status.  

SYO 3530 POVERTY, INEQUALITY AND STRATIFICATION  
PR: SYG2000 or CI. Social status and social stratification, social class as a factor in behavior, social mobility.  

SYO 4300 POLITICAL SOCIOLOGY  
PR: SYG2000 or CI. An examination of the social factors that affect government, politics, and political behavior.  

SYO 4370 OCCUPATIONS AND PROFESSIONS  
PR: SYG2000 or CI. A comparative analysis of professions, particularly medicine, law, teaching, allied health professions, engineering. Focus on the process of professionalizing service occupations like police work, business management, public administration and social work.  

SYO 4400 MEDICAL SOCIOLOGY  
PR: SYG 2000 or CI. The study of disease and the sick person including the analysis of health practices, beliefs, and practitioners, the hospital as an organization, the cost, financing, and politics of health care.  

SYO 4430 DISABILITY & SOCIETY -XMW  
PR: SYG2000 or CI. Examination of the applicability of sociological concepts to the experience of disability, and of disability as a means to a better understanding of the nature of social experience.  

SYO 4500 SOCIAL PSYCHOLOGY-SS  
PR: SYG2000 or CI. An exploration of the social forces that help shape individual perceptions, behaviors, and personality. The study of ways individuals develop identity and self-worth.  

SYP 3562 FAMILY VIOLENCE  
PR: SYG2000 or CI. An exploration of the complexity of the causes and consequences of physical, sexual, and emotional violence among family members. Topics include the meanings and behaviors of violence, the process of help-seeking, and social interventions for offenders and victims. Open to nonmajors.  

SYP 4300 COLLECTIVE BEHAVIOR  
PR: SYG2000 or CI. Study of the development of group and mass behavior and social movements.  

SYP 4420 CONSUMER CULTURE -XMW -XLW  
PR: SYG2000 or CI. The exploration of how Americans' purchasing behavior connects to larger historical shifts in our economy, including disenchantment, alienation, inequality, and the rise of the credit card society.
SYF 4510 SOCIOLOGICAL ASPECTS OF DEVIANCE (3)  
The examination of the social construction of deviance: How deviance is defined, implications of deviance designations. Applications of theories of deviance to questions such as motivations of deviants and implications of criminal justice processing of deviants.

SYF 4530 SOCIOLOGY OF JUVENILE DELINQUENCY (3)  
Sociological issues in defining delinquency; the nature of adolescence and delinquency; sociological theories of the causes of delinquency; types and consequences of social control applied to delinquents.

SYF 4640 LEISURE IN SOCIETY (3)  
PR: SYG 2000 or CI. Sociological examination of leisure in the United States and other countries. Topics include changing leisure time patterns, relationships between leisure and work, personality, family, community, subcultures, religion, and social class.

SYF 4650 SPORT IN SOCIETY (3)  
An examination of the broad issues concerning sport in both a historical and contemporary perspective. Sport will be viewed in relation to social institutions, economic considerations, mass media, and the sport group as a micro-social system.

Women's Studies

AFA 4335 BLACK WOMEN IN AMERICA - 6A - XMW (3)  
An interdisciplinary survey of the contemporary experience of black women in America, including the African roots, myths, and realities surrounding that experience. (May also be taken for credit in Africana Studies.)

AMH 3561 AMERICAN WOMEN I (4)  
A study of women in the evolution of American society from European origins to 1877. Women’s roles in the family, economy, politics, wars, religion and reform movements will be examined. (May also be taken for credit in History.)

AMH 3562 AMERICAN WOMEN II (4)  
A study of women in the evolution of American society from 1877 to the present. Women’s roles in the family, economy, politics, wars, religion and reform movements will be examined. (May also be taken for credit in History.)

AMS 3370 SOUTHERN WOMEN: MYTH AND REALITY - 6A (3)  
An analysis of the myths surrounding Southern Women, this course will identify these myths, discern their sources and purposes, and contrast them with history. (May also be taken for credit in American Studies.)

ANT 4302 SEX ROLES IN CROSSCULTURAL PERSPECTIVE (3)  
PR: ANT 3410 or CI. Focuses on various theories, models and beliefs about male-female behaviors and interactions in human cultures throughout history and in various societies in the world today. (May also be taken for credit in Anthropology.)

COM 4030 WOMEN AND COMMUNICATION (3)  
Examines women’s patterns of communication in a variety of contexts. (May also be taken for credit in Communication.)

PHI 4632 FEMINIST ETHICS - XMW (3)  
A study of the varied approaches to moral reasoning taken by feminist ethical writers such as Wolffstonecraft, Mill, Gilligan, Daly, Hoagland and others. (May also be taken for credit in Philosophy.)

PHM 5125 TOPICS IN FEMINIST PHILOSOPHY (3)  
A study of recent feminist philosophical approaches to epistemology, aesthetics or political philosophy. (May also be taken for credit in Philosophy.)

POS 4693 WOMEN AND LAW I (3)  
Introduction to issues concerning the legal aspects of sex and sex-based discrimination as embodied in statutory and case law, focusing on constitutional and family law and reproductive freedom issues. Open to majors and non-majors. (May also be taken for credit in Government and International Affairs.)

POS 4694 WOMEN AND LAW II - 6A - XMW (3)  
PR: POS 4693 or CI. Legal position of women in American society and remedies available to challenge current laws and practices, with specific emphasis on employment and education issues as they relate to both women and men. (May also be taken for credit in Government and International Affairs.)

PUP 4323 WOMEN AND POLITICS - 6A - XMW (3)  
An analysis of the impact of gender on power and influence in American society, and women's changing role in the political process. Open to majors and non-majors. (May also be taken for credit in Government and International Affairs.)

REL 3145 WOMEN AND RELIGION - 6A (3)  
Status and roles of women as compared to men in the Judeo-Christian tradition. Contemporary issues of feminist theology, and the controversies surrounding them. (May also be taken for credit in Religious Studies.)

SOP 3742 PSYCHOLOGY OF WOMEN - SS (3)  
Theories of female personality. Current research on socialization, sexuality, reproduction. Emerging lifestyles and developmental tasks of the life cycle. (May also be taken for credit in Psychology.)

SPT 2524 WOMEN WRITERS OF LATIN AMERICA (3)  
Literature of Latin-American women (in translation). Topics related to race and ethnicity, values and ethics, social, economic, and political issues. Readings will include oral histories, interviews, diaries and memoirs, poetry, short stories, and novels. (May also be taken for credit in Modern Languages and Literatures.)

SYD 4800 GENDER AND SOCIETY (3)  
PR: SYG 2000, WST 3010 or 3011; or CI. Historical and contemporary exploration of current issues relevant to sex roles in America. Emphasis on sex role differences, interpersonal relationships and institutional participation. (May also be taken for credit in Sociology.)

WST 2309 THE FEMALE EXPERIENCE IN AMERICA - HP (3)  
The female experience in America, in historical context, with an emphasis on women in families of various classes, races, and ethnic groups from colonial times to 1870.

WST 2380 HUMAN SEXUAL BEHAVIOR - SS (3)  
The dynamics of human sexuality: biological, constitutional, cultural, and psychological aspects. The range of sexual behavior across groups. Sources of beliefs and attitudes about sex, including sex roles and especially female sexuality.

WST 3010 INTRODUCTION TO WOMEN'S STUDIES - SS - NW (3)  
Survey of major issues relevant to the female experience. The women's movement: historical, psychological, sociological, anthropological perspectives.

WST 3011 ISSUES IN FEMINISM - SS (3)  
Survey of major issues relevant to the female experience: marriage and the family, sexuality, work, creativity.

WST 3210 WOMEN IN WESTERN CIVILIZATION I - 6A - HP (3)  
Survey of women in the ancient Near East, ancient Greece, ancient Rome, early Middle Ages. Origins of Western attitudes toward sex roles, female sexuality, relation of power to gender. (May also be taken for credit in History.)

WST 3220 WOMEN IN WESTERN CIVILIZATION II - HP (3)  
Survey of European women from the late Middle Ages to the 20th century: differing consequences of historical change for women and men. (May also be taken for credit in History.)

WST 3225 WOMEN, ENVIRONMENT AND GENDER - XMW (1-4)  
Provides students with a basic understanding of relationships between women's physical, health and occupational environments; consider the position of women regarding environmental issues; analyze concepts related to ecological feminism; and to examine role that women can play and do play in affecting environmental change.

WST 3275 WOMEN IN THE DEVELOPING WORLD (3)  
Survey of status of women in Asia, Africa, Latin and Caribbean America, compared to that in USA, Canada, West Europe, Muslim-Leninist countries. (May also be taken for credit in Government and International Affairs.)

WST 3360 MEN AND SEXISM (3)  
Ways in which sex role conditioning affects the lives of men. Factors in this conditioning, and alternatives to masculine sex role models.
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
<th>Prerequisites/Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>WST 3440</td>
<td>WOMEN AND SOCIAL ACTION -SS</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>WST 4260</td>
<td>RESEARCH ISSUES ON WOMEN OF COLOR -6A -XMW</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>WST 4262</td>
<td>LITERATURE BY AMERICAN WOMEN OF COLOR -6A -XLW</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>WST 4263</td>
<td>THIRD WORLD WOMEN WRITERS -6A -XLW</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>WST 4320</td>
<td>WOMAN'S BODY/WOMAN'S MIND</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>WST 4310</td>
<td>FEMINISM IN AMERICA -6A -XMW</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>WST 4335</td>
<td>WOMEN AND FILM</td>
<td>4</td>
<td></td>
</tr>
<tr>
<td>WST 4350</td>
<td>WOMEN AND SCIENCE -XMW</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>WST 4900</td>
<td>DIRECTED READINGS</td>
<td>1-3</td>
<td></td>
</tr>
<tr>
<td>WST 4910</td>
<td>DIRECTED RESEARCH</td>
<td>1-3</td>
<td></td>
</tr>
<tr>
<td>WST 4930</td>
<td>SELECTED TOPICS</td>
<td>1-4</td>
<td></td>
</tr>
<tr>
<td>WST 4935</td>
<td>SEMINAR IN WOMEN'S STUDIES</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>WST 5001</td>
<td>FEMINIST RESEARCH AND METHODOLOGY</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>WST 5266</td>
<td>WOMEN OF COLOR: ACTIVISM AND SOCIAL CHANGE</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>WST 5318</td>
<td>FEMINIST SPIRITUALITY</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>WST 5934</td>
<td>SELECTED TOPICS</td>
<td>1-4</td>
<td></td>
</tr>
</tbody>
</table>

The courses focus on various aspects of women's experiences and contributions across different disciplines, including social action, research issues, literature, third world women writers, women's health and healing experiences, feminist critiques, and feminist theory. These courses aim to empower students to understand the complexities of women's roles and experiences in society, and to develop a comprehensive understanding of the situation of women in contemporary society.
The USF College of Business Administration will provide high quality programs preparing students to contribute to and take leading positions in business and society. Our teaching, scholarship, and service will link theory and practice to benefit the University and the community.

The College of Business Administration offers courses of study leading to both undergraduate and graduate degrees. All degree programs in the College of Business Administration are fully accredited by the American Assembly of Collegiate Schools of Business (AACSB).

The undergraduate curriculum which leads to a Bachelor of Arts or Bachelor of Science degree is composed of several segments: (1) broad general education in the arts, humanities and sciences; (2) the common body of knowledge for management responsibilities; and (3) specialized areas of concentration in Accounting, Economics, Finance, Management, Marketing, General Business, and Management Information Systems. Through flexibility in its requirements, the College is able to satisfy the different interest and career objectives of students with diverse backgrounds. Graduate programs in the College are described in the USF Graduate Catalog.

BACCALAUREATE LEVEL DEGREE PROGRAMS

Admission to the College Undergraduate Programs

1. Admission to the College of Business Administration is based upon availability of faculty and space, by discipline.

2. The College of Business Administration is an upper level limited access college, which means that it has admission requirements in addition to those of the University in general.

   The criteria to be admitted to the College of Business Administration are as follows:

   a. Minimum of 60 semester hours of college credit earned.

   b. Minimum of 2.5 cumulative grade point average on all college-level work and minimum 2.0 on all credit attempt(s) at USF including any prior to renewal.

   c. Completion of these prerequisite college courses (or equivalents):

      Financial Accounting
      Managerial Accounting
      Macroeconomics
      Microeconomics
      Statistics I
      Computers in Business
      Calculus for Business

   d. All courses (or their equivalents) listed in c., above, must be completed with a grade of C or higher.

   e. In computing entry grade point average all business and economics courses taken for S or U grades will be converted to C or F, respectively.

   f. Students meeting all other requirements and with a cumulative grade point average between 2.3 and 2.5 may apply to the College of Business, and will be considered on a case-by-case basis.

   3. Students working toward meeting the limited access criteria will be permitted to enroll in all foundation courses in Business (listed below) except GEB 4890, provided they have completed 60 semester hours and have met course prerequisites.

   4. A minimum score of 550 on paper & pencil or 213 on computerized TOEFL is required, when applicable.

   5. Students must be admitted to the College of Business Administration at least one term before their anticipated graduation date.

Academic Dismissal

Students who have been dismissed twice from the University for academic reasons will not be readmitted to the College of Business Administration.

Prerequisites (State Mandated Common Prerequisites)

The State of Florida has identified common course prerequisites for the College of Business Administration degree programs. These prerequisites are required for admission to the upper-division program and normally must be completed by the student prior to being admitted to the program. Students may be admitted into the University without completing the prerequisites, but may not be admitted into the program.

The following common prerequisites or their substitutions are necessary for admission to the College of Business Administration upper-division degree programs:

   ACG X021 Financial Accounting or ACG X001 and ACG X011
   ACG X071 Managerial Accounting
   (not required of students majoring in Accounting)
   CGS X100 Computers in Business
   (or acceptable substitute)
   ECO X013 Principles of Macroeconomics
   ECO X023 Principles of Microeconomics
   MAC X233 Elementary Calculus or MAC 2230
   STA X023 Introductory Statistics or QMB X100

Transfer Students

Transfer credits ordinarily will be accepted from accredited institutions; however, all hours earned may not be applied toward USF business degree requirements. Individual courses will be evaluated by an academic advisor and appropriately credited toward requirements in the student’s program at USF.

As a minimum, all transfer students are required to complete College of Business Administration residency requirements and USF Liberal Arts exit requirements. Note that College of Business Administration residency requirements for graduation exceed the minimum requirements established for USF.

Florida public junior/community college students enrolled in an associate of arts (AA) program should normally complete the general education requirements and the common course prerequisites at the junior/community college. As a rule, AA students should avoid taking any Business courses at the junior/community college which are listed as 3000 and 4000 level courses at USF. Normally, courses in finance, marketing, management, and accounting as well as other business administration and economics courses taken at the lower division level which are offered as upper division courses at USF will not be accepted for upper division credit in business administration or economics. Exceptions to this policy will be made only upon proper validation of such courses. Validation consists of CLEP or other written examinations prepared and administered by the USF College of Business Administration, or by successfully completing specified advanced courses in the discipline. Consult with an advisor before proceeding.

Florida public junior/community college students pursuing an associate of science (AS) program must be aware that some courses taken at the junior/community college may not be acceptable for credit in the baccalaureate programs. Students pursuing an AS program should see an advisor to determine the transferability of course work.

General Requirements for B.A./B.S. Degree

Students must satisfactorily complete a minimum of 120 semester hours. Of the minimum 120, at least 60 hours must be business courses, and a minimum of 54 hours must be non-business courses (i.e., all courses not normally offered in the discipline).
the College of Business Administration). Additional electives may be required to reach a minimum of 120 hours. These electives may be either business or non-business. More specifically the requirements for graduation are:

1. **Non-Business**

<table>
<thead>
<tr>
<th>Requirement</th>
<th>Semester Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>English Composition</td>
<td>6</td>
</tr>
<tr>
<td>Quantitative Methods (Calculus is required)</td>
<td>6</td>
</tr>
<tr>
<td>Natural Sciences</td>
<td>6</td>
</tr>
<tr>
<td>Social Sciences</td>
<td>6</td>
</tr>
<tr>
<td>Historical Perspectives</td>
<td>6</td>
</tr>
<tr>
<td>Fine Arts</td>
<td>3</td>
</tr>
<tr>
<td>African, Latin American, Middle Eastern, or Asian Perspectives</td>
<td>3</td>
</tr>
</tbody>
</table>

   **Total** 36

2. **Business**

<table>
<thead>
<tr>
<th>Requirement</th>
<th>Semester Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Accounting majors</td>
<td>3</td>
</tr>
<tr>
<td>Principles of Managerial Accounting</td>
<td>3</td>
</tr>
<tr>
<td>Computers in Business</td>
<td>3</td>
</tr>
<tr>
<td>Economic Principles: Macroeconomics</td>
<td>3</td>
</tr>
<tr>
<td>Microeconomics</td>
<td>3</td>
</tr>
<tr>
<td>Business &amp; Economic Statistics I</td>
<td>3</td>
</tr>
<tr>
<td>Law and Business</td>
<td>3</td>
</tr>
<tr>
<td>Managerial Economics</td>
<td>3</td>
</tr>
<tr>
<td>Principles of Finance</td>
<td>3</td>
</tr>
<tr>
<td>Business &amp; Economic Statistics II</td>
<td>3</td>
</tr>
<tr>
<td>Principles of Management</td>
<td>3</td>
</tr>
<tr>
<td>Management Science POM</td>
<td>3</td>
</tr>
<tr>
<td>Basic Marketing</td>
<td>3</td>
</tr>
<tr>
<td>Business Policy</td>
<td>3</td>
</tr>
</tbody>
</table>

   **Total Foundation Courses in Business** 42

<table>
<thead>
<tr>
<th>Requirement</th>
<th>Semester Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>English Composition</td>
<td>6</td>
</tr>
<tr>
<td>Literature and Writing</td>
<td>3</td>
</tr>
</tbody>
</table>

   **Total** 9

3. **Electives in Business or Non-Business**

   Sufficient elective courses to reach at least 60 hours

   Minimum Business Courses 60-66

4. **Elective Requirements**

   Sufficient elective courses to reach a minimum of 120 hours

   Minimum Total Hours 120

5. **General Education Requirements**

   a. General Education Requirements 6
   b. Quantitative Methods (Calculus is required) 6
   c. Natural Sciences 6
   d. Social Sciences 6
   e. Historical Perspectives 6
   f. Fine Arts 3
   g. African, Latin American, Middle Eastern, or Asian Perspectives 3

   **Total** 36

**Exit Requirements**

a. Major Works and Major Issues 6
b. Literature and Writing 3

**Total** 9

4. Sufficient courses to reach at least 60 hours

Minimum Business Courses 60-66

**General Education Requirements Semester Hours**

<table>
<thead>
<tr>
<th>Requirement</th>
<th>Semester Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>English Composition</td>
<td>6</td>
</tr>
<tr>
<td>Literature and Writing</td>
<td>3</td>
</tr>
</tbody>
</table>

**Total** 9

**SUFFICIENT ELECTIVE COURSES TO REACH A MINIMUM NON-BUSINESS HOURS** 54

**Business Foundation Courses in Business**

<table>
<thead>
<tr>
<th>Requirement</th>
<th>Semester Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>ACG 2021 Principles of Financial Accounting</td>
<td>3</td>
</tr>
<tr>
<td>ACG 2071 Principles of Managerial Accounting</td>
<td>3</td>
</tr>
<tr>
<td>CGS 2100 Computers in Business</td>
<td>3</td>
</tr>
<tr>
<td>ECO 2013 Economic Principles: Macroeconomics</td>
<td>3</td>
</tr>
<tr>
<td>ECO 2023 Economic Principles: Microeconomics</td>
<td>3</td>
</tr>
<tr>
<td>QMB 2100 Business &amp; Economic Statistics I</td>
<td>3</td>
</tr>
<tr>
<td>BUL 3320 Law and Business I</td>
<td>3</td>
</tr>
<tr>
<td>ECO 3100 Managerial Economics</td>
<td>3</td>
</tr>
<tr>
<td>FIN 3403 Principles of Finance</td>
<td>3</td>
</tr>
<tr>
<td>QMB 3200 Business &amp; Economic Statistics II</td>
<td>3</td>
</tr>
<tr>
<td>MAN 3025 Principles of Management</td>
<td>3</td>
</tr>
<tr>
<td>ISM 3431 Management Science POM</td>
<td>3</td>
</tr>
<tr>
<td>MAR 3023 Basic Marketing</td>
<td>3</td>
</tr>
<tr>
<td>GEB 4890 Business Policy</td>
<td>3</td>
</tr>
</tbody>
</table>

**Total Foundation Courses in Business** 42

**Major Requirements**

18-27

**Minimum Business Courses** 60-66

**Major Requirements**

- Sufficient courses to reach at least 60 hours
- Minimum Business Courses 60-66

**Requirements for a Minor in Business Administration (Non-Business Majors Only)**

Admission to the Business Administration Minor Program requires the signature of the student's major program advisor. All students admitted to the program must complete an introductory computer course (with a content similar to CGS 2100 Computers in Business) or obtain a waiver for this requirement from the College of Business Administration by demonstrating competence in the use of computers. The course requirements are:

1. ACG 3074 Managerial Accounting for Non-Business Majors* (3)
2. ECO 1000 Basic Economics** (3)
3. FIN 3403 Principles of Finance (3)
4. MAN 3025 Principles of Management (3)

**PROGRAMS AND CURRICULA**

**GENERAL BUSINESS (GBA)**

The General Business Major is a program of study that will allow the student to take additional upper level course work in several business and, in some instances, other disciplines related to the student's plan of study.

**Requirements for the B.A./B.S. Degree**

Within the 120 semester hour program as listed in the General Requirement section, students must complete a minimum of 18 hours of upper level courses beyond the business core requirements.

Student are required to take one upper level course from each of the following groups:

**Accounting:**

- ACG 3103 Intermediate Financial Accounting I (3)
- ACG 3341 Cost Accounting and Control I (3)
- TAX 4001 Concepts of Federal Income Taxation (3)

**Economics:**

- Any course offered by the Economics Department numbered 3000 or above. (3)

**Finance:**

- Any course offered by the Finance Department numbered 3000 or above (except FIN 3100 and FIN 3105) (3)

**Management:**

- MAN 3240 Organizational Behavior Analysis (3)
- MAN 3301 Human Resources Management (3)
- ISM 3011 Management Information Systems (3)
- Marketing:
  - MAR 3823 Marketing Management (3)
  - MAR 3613 Marketing Research (3)
  - Other upper level business electives (3-9)

**TOTAL** (18-24)

Independent study and independent research courses are not appropriate electives.

**Requirements for a Minor in Business Administration (Non-Business Majors Only)**

Admission to the Business Administration Minor Program requires the signature of the student's major program advisor. All students admitted to the program must complete an introductory computer course (with a content similar to CGS 2100 Computers in Business) or obtain a waiver for this requirement from the College of Business Administration by demonstrating competence in the use of computers. The course requirements are:

1. ACG 3074 Managerial Accounting for Non-Business Majors* (3)
2. ECO 1000 Basic Economics** (3)
3. FIN 3403 Principles of Finance (3)
4. MAN 3025 Principles of Management (3)
ACCOUNTING (ACC)
The objectives of the baccalaureate degree program in accounting are to provide students with accounting and business knowledge that will serve as a basis for careers in industry, government, non-profit organizations and public accounting.

The baccalaureate program also prepares students for entry into the Master of Accountancy (M.Acc.) professional degree program.

The State of Florida, like most states, requires a fifth year of education in order to sit for the CPA examination. Any further education in order to sit for the CPA examination. Any further education required by the Florida Board of Accountancy must be obtained at USF. Undergraduate program advisors will recommend courses that will satisfy the school's program requirements.

Requirements for the B.A./B.S. Degree
In addition to the non-business and business foundation courses listed in the General Requirements section, students must complete a minimum of 27 hours of upper level accounting courses, of which 18 credit hours must be taken in residence at USF, and sufficient elective hours to reach a 120 hour total.

Required Accounting Courses:
- ACG 3103 Intermediate Financial Accounting I (3)
- ACG 3113 Intermediate Financial Accounting II (3)
- ACG 3341 Cost Accounting and Control I (3)
- ACG 3401 Accounting Information Systems (3)
- ACG 4632 Auditing I (3)
- TAX 4001 Concepts of Federal Income Taxation (3)

Electives (9 hours selected from):
- ACG 4123 Advanced Financial Accounting (3)
- ACG 4231 Cost Accounting and Control II (3)
- ACG 5201 Advanced Financial Accounting (3)
- ACG 4501 Governmental/Not-for-Profit Accounting (3)
- ACG 4642 Auditing II (3)
- ACG 4931 Selected Topics (3)
- ACG 4932 Honors Accounting Seminar (3)
- ACG 5671 Internal and Operational Auditing (3)
- TAX 4015 Federal Taxation of Business Entities (3)

TOTAL (18)

The student's program must also include course work taken in behavioral sciences and humanities, such as psychology, anthropology, and sociology, and the political environment of business and society, such as political science, public administration, and ethics. College of Business Administration advisors will recommend courses that will satisfy the program requirements.

Accounting majors can use the forgiveness policy only once in upper level accounting courses. Accounting courses taken by accounting majors on an S/U basis will not be counted toward the 120 hour graduation requirement. Independent Research, ACG 4911, will not be accepted as credit toward the minimum degree requirements in the accounting concentration.

Accounting majors must earn a "C" grade in each of the sequential upper-level accounting courses before being allowed to go onto the next course. i.e., ACG 3103, ACG 3113, ACG 3341, ACG 4632, TAX 4001. allowing students to tailor their programs to provide training for careers in business as well as teaching, government, and law.

Requirements for the B.A./B.S. Degree
Within the 120-semester hour program as listed in the General Requirements section, students must complete a minimum of 18 hours of upper-level economics beyond the business core requirements. Students must obtain a grade of "C" or higher in ECO 3100 Managerial Economics or ECO 3101 Intermediate Price Theory, in order to enroll in any course for which ECO 3100, ECO3101 or ECO 3203 is a prerequisite. No more than 3 hours credit can be applied toward a major from ECO 4905 and/or ECO 4914. At least 12 hours must be taken in residence at USF. Grades of "C" or better in ECO 2013 and ECO 2023 are required for graduation with a major in Economics.

Required Economics Courses:
- ECO 3203 Intermediate Income and Monetary Analysis (3)
- ECO 4905 and/or ECO 4914 (12)

TOTAL Economics Hours (18)

Business majors may obtain a minor with only 6 additional upper level hours in economics beyond the Business Core.

1. ECO 2013 Economic Principles: Macroeconomics (3)
2. Before being recognized as a minor in economics, a student must obtain program approval by the Economics Department Undergraduate Advisor.
3. ECO 2023 Economic Principles: Microeconomics (3)
4. Upper level economics electives (including QMB 3200) (12)

The Economics Pre-Law Curriculum
Economic principles provide the foundation for much of our legal system. Economics offers a series of courses to provide the abstract and applied skills required by those seeking legal careers.

Beyond ECO 2013 Economic Principles (Macroeconomics) and ECO 2023 Economic Principles (Microeconomics), students should elect ECP 4451 Law and Economics. ECP 3413 Economics of Regulation and Antitrust and ECO 4935 Economics of Crime are strongly recommended. Additional courses of interest are: ECO 4504 Public Finance, ECP 3530 Economics of Health, ECP 3302 Environmental Economics, ECP 3203 Labor Economics, ECP 3201 Economics of Women and Work. The Economics Pre-Law Curriculum fits easily within the Economics major or minor but is open to other students. The Economics Department Undergraduate Advisor has helpful advice for students taking the Law School Admissions Test or applying for admission to law schools.

FINANCE (FIN)
The Finance major provides a broad-based analytical program for students anticipating a career in the management of both large and small organizations. Finance provides a good background for students seeking general careers in business. Finance majors may elect to follow tracks which prepare them...
for entry and advanced careers in:
  • the financial management of corporations
  • the management of financial institutions
  • investments
  • financial services, insurance, and real estate.

In addition, the program in Finance is designed to provide the skills required by students earning degrees in other business disciplines and by students who seek professional degrees in areas such as law and public administration.

The Finance program offers applied and theoretical courses in accounting, management, statistics, computer applications in finance, and will know how to access financial information. Course content is designed to provide majors with an appreciation of cooperative work skills and enhance their verbal and written communication skills. Finance graduates will understand the functions and operations of financial markets, will become familiar with computer applications in finance, and will know how to access and utilize financial information. Course content is designed to provide majors with an appreciation of cooperative work skills and to enhance their verbal and written communication skills.

- **Requirements for the B.A./B.S. Degree**
  - Within the 120 semester hour program as listed in the General Requirements section, students must complete a minimum of 18 hours of upper-level finance courses beyond FIN 3403.
  - Required Finance Courses:
    - FIN 4303 Financial Institutions and Markets (3)
    - FIN 4414 Advanced Corporation Finance (3)
    - FIN 4504 Principles of Investments (3)
- Additional upper level Finance electives (9-15) — Total (18-24)

Finance electives may be selected from among those 3000 and 4000 level classes which have FIN, REE, and RMI prefixes. At least two electives must have an FIN prefix. Independent Study (FIN 4905) and Independent Research (FIN 4915) will not be accepted as credit toward the minimum degree requirements for a major in Finance. The following Finance tracks are recommended for students with specific interest in the following career areas:

- **Corporate Financial Management**
  - FIN 3604 International Finance
  - FIN 4412 Working Capital Management
- **Financial Policies and Strategies**
  - FIN 4443 Financial Policies and Strategies
- **Management of Financial Institutions**
  - FIN 3233 Money and Banking
  - FIN 3604 International Finance
- **Bank Management**
  - FIN 4324 Bank Management
- **Working Capital Management**
  - FIN 4412 Working Capital Management
- **Investments**
  - FIN 3604 International Finance
  - FIN 4514 Advanced Investment Analysis & Management
- **Real Estate**
  - REE 4303 Real Estate Investment Analysis
- **Financial Services**
  - FIN 3604 International Finance
  - FIN 4514 Advanced Investment Analysis & Management
- **Real Estate Decision-Making**
  - RMI 3011 Principles of Insurance
- **Advanced Corporation Finance**
  - FIN 4414
- **Financial Institutions and Markets**
  - FIN 4303
- **Investments**
  - FIN 4414
- **Real Estate Investment Analysis**
  - REE 4303
- **Principles of Investments**
  - FIN 4504
- **Another upper level Finance Elective with an FIN, REE, or RMI prefix** — Total (3)

- **Requirements for the B.A./B.S. Degree**
  - A grade point average of 2.0 or better must be achieved in the minor course work at USF and in all minor courses completed at any institution.
  - At least 9 of the required 12 credit hours must be taken in residence at USF.

- **INFORMATION SYSTEMS AND DECISION SCIENCES (ISM)**
  - The Management Information Systems (MIS) major provides the skills and knowledge necessary for information systems development and support positions in both business and non-business organizations.
  - **Requirements for the B.A./B.S. Degree**
    - Within the 120 semester hour program listed in the General Requirements section, students must complete a set of six MIS courses and two approved MIS electives.
    - Required MIS Courses:
      - ISM 3230 Introduction to Business Application Development (3)
      - ISM 3232 Adv. Business Application Development* (3)
      - ISM 3113 Systems Analysis and Design (3)
      - ISM 4212 Database Administration (3)
      - ISM 4220 Business Data Communications (3)
      - ISM 4300 Managing Information Resources (3)
    - Approved MIS Electives: — Total (3)
- **Management Information Systems (MIS)**
  - MIS majors must earn a "C" or better in all required MIS courses; they can use grade forgiveness for only one upper-level MIS course. No more than three hours of ISM 4950 may be counted as MIS electives. (ISM 4905 will not count as an MIS elective.)

- **Requirements for a Minor in MIS**
  - Students majoring in Business Administration may minor in MIS. The requirements are:
    1. ISM 3230 Introduction to Business Application Development (3)
    2. ISM 3113 Systems Analysis & Design (PR/CR ISM 3230) (3)
    3. Plus, any 2 of the following: — Total MIS hours (12)
      - ISM 3232 Advanced Business Application Development
      - ISM 4212 Database Administration
      - ISM 4220 Business Data Communications
    - A grade point average of 2.0 or better must be achieved in the minor course work at USF and in all minor courses completed at any institution.
    - At least 9 hours of the required 12 credit hours must be taken in residence at USF.

- **MANAGEMENT (MAN)**
  - The undergraduate degree in the Department of Management prepares students for entry level positions in Human
• Requirements for the B.A./B.S. Degree
   Within the 120-semester-hour program as listed in the General Requirements section, students must complete 18 hours of management beyond MAN 3025.
   Required Management Courses:
   MAN 3240 Organizational Behavior Analysis (3)
   Additional upper-level management courses (15-21)
   Total (18-24)
   MAN 4504 and MAN 4507 do not count towards the management major.
   Students are encouraged to seek additional curriculum advice from the Management Department.

• Requirements for a Minor in Management (For Business Majors Only)
   Students majoring in Business Administration may minor in Management.
   The requirements are:
   1. MAN 3240 Organizational Behavior Analysis (3)
   2. A grade point average of 2.0 or better must be achieved in the minor course work at USF; and in all minor courses completed at any institution.
   3. At least 9 hours of the required 12 credit hours must be taken in residence at USF.

MARKETING (MKT)
Marketing is a dynamic field with many dimensions, including product selection and planning, product distribution, pricing and promotion. Marketing poses many challenges and yields generous rewards for those meeting these challenges. Marketing operations are carried out domestically and internationally in virtually all business organizations offering a product or service. Many marketing concepts are applicable to the operations of non-profit organizations such as governmental, educational, and health care institutions as well as charitable and political campaigns.
Marketing operations provide the most visible links between the firm or institution and its many publics. Marketing in the end deals with people, people who are constantly changing in their needs, wants and desires; and coupled with these changing tastes is a fiercely competitive environment sustained by all the resources of a rapidly evolving technology. These forces lead to much of the challenge -- to much of the dynamic nature of marketing.

The marketing program at USF prepares students for initial entry and management positions in many areas of marketing with a curriculum that is concerned with:
1. Understanding consumer behavior and the broader environment within which the firm or institution operates;
2. Collecting, analyzing, and using information about customers, competitors, and the environment for managerial decisions;
3. Distributing products effectively and efficiently from producer to user;
4. Advertising and promoting the offerings of the firm or institution effectively;
5. Creatively and effectively managing a sales force selling industrial or consumer goods and services; and
6. Managing retail and wholesale operations including the conceptualization, implementation and evaluation of the buying, merchandising, and control functions.
Each student is strongly encouraged to set up an individualized plan of study with the assistance of a Marketing department faculty adviser. Such counseling can lead to a better definition of career objectives and will result in a plan of study that is consistent with each student’s career objectives.

Undergraduate students in the College of Business not majoring in Marketing are encouraged to take selected offerings from the Marketing curriculum to broaden their backgrounds and to prepare for marketing-related positions in business or non-profit organizations.

• Requirements for the B.A./B.S. Degree:
   Within the 120-semester-hour program as listed in the General Requirements section, students must complete a minimum of 18 hours in marketing beyond MAR 3023.
   Required Marketing Courses:
   MAR 3823 Marketing Management (3)
   MAR 3613 Marketing Research (3)
   MAR 4824 Marketing Management Problems (3)
   Additional upper-level marketing courses (9-15)
   Total (18-24)
   It is strongly recommended that marketing majors include courses in speech, computer science, finite mathematics, social psychology, and mass communications as part of their general electives.

College of Business Administration
International Programs

Certificate in International Business
The Certificate in International Business provides students with the perspectives, knowledge, skills and experience necessary for successful careers in today’s global environment. A statement recognizing the completion of the Certificate in International Business will appear on the student’s official transcript.
To qualify for the Certificate in International Business students must satisfy the requirements for one of the undergraduate major degree programs in Business Administration, and also complete sufficient additional coursework to attain a minimum of 18 semester credit hours of upper level international business or approved related course work. With approval, international courses taken to meet degree requirements may also be used to meet the 18 semester credit hour certificate requirement. At least 12 of the 18 semester credit hours of international courses must be selected from a set of approved international business courses (see below). Up to 6 of the 18 semester credit hours in the certificate may be selected from approved area studies courses, or other courses taken outside the College which are related to the student’s international area of interest. At least 12 semester credit hours of the course work in the Certificate in International Business program must be taken at USF. A grade point average of 2.0 or higher must be achieved in certificate course work taken at USF, as well as in any transfer work applicable to the certificate program. In addition to the specified course requirements, competency to effectively communicate in a foreign language must be demonstrated. Language competency will normally be evaluated by the USF Division of Languages. Students are required to choose a specific region of the world as the focal point for the area studies and language aspects of their programs.

Minor in International Business
Students Majoring in Business Administration
To qualify for the minor in International Business, students with a major in one of the undergraduate degree programs in Business Administration must successfully complete a minimum of 12 hours of international business or related coursework. At least nine semester credit hours in the minor must be selected from a set of approved upper level international business courses (see below). One of the courses in the minor may be an approved area studies course, or other course, taken outside the College which is relevant to the student’s international area of interest. A minimum of nine semester hours of the minor course work must be taken at USF. A grade point average of 2.0 or higher must be achieved in minor
Non-Business Administration Majors
To qualify for the International Business minor, non-business majors must complete the requirements for the minor in Business Administration (see previous Requirements for a Minor in Business Administration) and, in addition, complete at USF a minimum of nine semester credit hours selected from a set of approved upper level international business courses (see below). A grade point average of 2.0 or better must be achieved in the minor course work taken at USF, as well as in any transfer work applicable to the minor program. Competency to communicate in a foreign language is strongly advised. A statement attesting to the completion of the Minor in International Business will appear on the student’s official transcript.

Courses Approved for the Certificate in International Business and the Minor in International Business
The following courses are currently approved for the International Business major and minor:

**ECO 3703** International Economics
**ECO 4713** International Monetary Economics
**ECO XXX** Economics of Latin America
**FIN 3604** International Finance
**MAN 4600** International Management
**MAR 4156** International Marketing

Other courses will be added as they are developed and approved. In addition, the College frequently offers Selected Topics courses that qualify for the International Business certificate and minors. Students should consult with an advisor for additional approved courses.

Recommendations for Students Interested in International Business
To increase the quality and number of initial job opportunities and to enhance longer-term career objectives students are strongly advised to:

- Couple study of international business with a major or minor in one of the functional areas of business. The combination of international business and one of the traditional functional areas of business administration is a very attractive set of qualifications in the marketplace.
- Include an international internship and/or overseas study experience in the program. With careful planning, a student can complete an area studies course, an international business course and language training in a single term of relatively inexpensive study abroad. More information is available from the Business Undergraduate Programs Office and the Center for International Business.
- Maintain a portfolio of international academic and professional activity. Information on the content of such a portfolio is available from the International Business Programs Office.

Other Campuses
Due to limited enrollment and faculty, only the following majors are regularly offered at the Regional Campuses:

- **St. Petersburg** Accounting and General Business Administration
- **Sarasota** Accounting and General Business Administration
- **Lakeland** Accounting and General Business Administration

Students may declare other business majors while attending these locations, but it may be necessary to finish their major study requirements at another campus within the University.

Student Organizations within the College of Business
All students are encouraged to participate in extracurricular activities. The following organizations provide a means for students to develop both professionally and socially while attending the College of Business Administration.

**Alpha Kappa Psi** - A progressive coed professional business fraternity committed to providing a forum for leadership development in preparation for careers in all areas of business.

**Association of Marketing Students** - A collegiate chapter of the American Marketing Association, will help to further the growth of business oriented individuals within the field of Marketing.

**Beta Alpha Psi** - The national professional accounting fraternity devoted to the promotion of the profession, inspiring professional ideals, and recognizing academic achievement.

**Beta Gamma Sigma** - Honorary society which encourages and rewards outstanding scholarship among business students.

**Business College Council** - An organization whose representatives from each of the major fields advises the Dean of the College and the faculty on student attitudes and goals. Also, it acts as a liaison between the Student Government Association and the College of Business Administration.

**Delta Sigma Pi** - Fosters the study of business and a close association between students and the business world.

**International Business Board** - Stimulates and promotes interest in international business and provides professional and cultural programs and dialogue regarding opportunities for study and work abroad.

**Management Information Systems Society** - Student chapter of the Data Processing Management Association, career oriented and interested in all areas of business data management.

**Minority Business Association** - Encourages and supports students in their efforts to achieve success in a demanding academic setting.

**National Association of Black Accountants** - Develops, encourages, and serves as a resource for greater participation by African-Americans and other minorities in the accounting and finance professions.

**Pi Sigma Epsilon** - A professional society interested in marketing, sales management, and selling.

**Student Accounting and Business Organization** - Promotes professionalism in accounting and other Business disciplines. (St. Petersburg Campus)

**Student Finance Association** - An organization for finance majors and other business-oriented students which provides exposure to the many facets and opportunities in the field of finance.

**BUSINESS ADMINISTRATION FACULTY**

**Accounting/Law**
Economics

Finance
Chairperson: S. Besley; Lykes Professor of Banking & Finance; J. L. Pappas; University Distinguished Service Professor and Serge Bonann Distinguished Professor of International Finance; A. Beenhakker; Professor Emeritus-Dean Emeritus: R. G. Cox; Professors: A. Beenhakker, S. E. Bolton, S. Kaprini, R. L. Meyer, J. L. Pappas, F. B. Power, A. Schwartz, K. F. Wieland; Associate Professors: S. Besley, S. B. Bulmash, D. A. Johnson, P. Kares, R. J. Rivard; Assistant Professors: B. Francis, J. Goh, N. Kohers, C. Pantazalis, J. Qi; Other Faculty: J. Rader.

Information Systems & Decision Sciences

Management

Marketing

BUSINESS ADMINISTRATION COURSES

General Business Administration
BUL 3320 LAW AND BUSINESS I (3)
This course covers the nature of legal and societal institutions and environments, and major aspects of public, private, UCC and related business law.

BUL 3321 LAW AND BUSINESS II (3)
PR: BUL 3320. Legal problems in marketing of goods, nature of property, sales of personal property, securing of credit granted, nature and use of negotiable instruments.

BUL 3360 THE LAW OF BUSINESS ASSOCIATIONS (3)
PR: BUL 3320. A study of the law of corporations, the law of partnerships, and the law of agency.

BUL 4331 LAW AND THE ACCOUNTANT (3)
PR: BUL 3320 or CI. A comprehensive study of commercial law as it affects the practice of accounting.

GEB 2350 DOING BUSINESS AROUND THE WORLD-SS (3)
This course introduces the student to: 1) the nature of international business; 2) the framework of international organizations and the monetary system within which international business functions; 3) forces affecting international business; and 4) management responses to problems caused by international environments.

GEB 2935 SELECTED TOPICS IN BUSINESS (1-4)
PR: CI. Topics to be selected by department chairs. May be repeated if topics vary. Not available for credit to upper-level students who have been admitted to the College of Business.

GEB 4890 BUSINESS POLICY-XMW (3)
PR: Senior standing and FIN 3403, MAN 3025, MAR 3023. The course is intended to provide a unifying, integrating, and coordinating opportunity to tie together concepts, principles, and skills learned separately in other, more specialized courses in Business Administration.

GEB 4905 INDEPENDENT STUDY (1-3)
PR: CI. Specialized independent study determined by the student's needs and interests. May be repeated up to eight credit hours. (SU only.)

GEB 4915 INDEPENDENT RESEARCH (1-4)
PR: CI. Individual study contract with instructor and department chairperson required. The research project will be mutually determined by the student and instructor. May be repeated up to 8 hours.

GEB 4935 SELECTED TOPICS IN BUSINESS ADMINISTRATION (1-4)
The content and organization of this course will vary according to the current interests of the faculty and needs of students.

Accounting/Law
ACG 2021 PRINCIPLES OF FINANCIAL ACCOUNTING (3)
Study of basic financial accounting principles including the recording, reporting and use of financial information and the preparation and interpretation of financial statements.

ACG 2071 PRINCIPLES OF MANAGERIAL ACCOUNTING (3)
PR: ACG 2021. A study of the accountant's role in assisting management in the planning and controlling of business activities.

ACG 3074 MANAGERIAL ACCOUNTING FOR NON-BUSINESS MAJORS (3)
The study of the uses of accounting data internally by managers in planning and controlling the affairs of organizations. Does not count towards major or CPA requirements.

ACG 3103 INTERMEDIATE FINANCIAL ACCOUNTING I (3)
PR: ACG 2021. Theory and methodology underlying financial reporting, including the FASB's conceptual framework, the accounting process, financial statements, accounting changes, present value applications, and current assets.

ACG 3113 INTERMEDIATE FINANCIAL ACCOUNTING II (3)
PR: ACG 3103. Continuation of ACG 3103. Topics covered include property, plant and equipment, intangibles, current liabilities, long-term debt, stockholders' equity, earnings per share computations, and investments.

ACG 3341 COST ACCOUNTING AND CONTROL I (3)
PR: ACG 2071 or ACG 3103. Deals with cost accounting systems for different entities, cost behavior patterns, cost-volume-profit analysis, relevant information for decision making, and budgets and standard costs for planning and control.

ACG 3401 ACCOUNTING INFORMATION SYSTEMS (3)
PR: ACG 2021 and CGS 2100. This course provides students with a basic understanding of well-controlled information systems in a variety of technological environments with added emphasis placed on the collection, processing, and reporting of accounting information. Students who complete this course will not receive credit for ACG 4821.

ACG 4123 INTERMEDIATE FINANCIAL ACCOUNTING III (3)

ACG 4351 COST ACCOUNTING AND CONTROL II (3)
PR: ACG 3341. Application of the material covered in ACG 3341 with specific emphasis on cost allocations, performance measurements, analysis of current cost accounting systems and accounting in today's environment (giving consideration to the influences of the international environment).
ACG 4501 GOVERNMENTAL/NOT-FOR-PROFIT ACCOUNTING (3)
PR: ACG 2021. Application of financial and managerial accounting, and auditing, principles and theory to both governmental and not-for-profit entities.

ACG 4621 COMPUTER CONTROL AND AUDIT (3)
PR: ISM 3113. Study of information systems controls and auditing techniques emphasizing the effect both genreal and specific controls have on asset protection, data integrity, system effectiveness and efficiency in computerized business environments. Students who complete this course will not receive credit for ISM 4320 or ACG 3401.

ACG 4632 AUDITING II (3)
PR: ACG 3113 and ACG 3401. This course provides a sound conceptual foundation of basic auditing process from the perspective of the public accounting profession. Professional standards, ethics, legal responsibilities, and the utilization of technology are addressed.

ACG 4642 AUDITING III (3)
PR: ACG 4632. Further development of material covered in ACG 4632, with special emphasis on additional reporting topics and audit techniques not previously addressed.

ACG 4901 INDEPENDENT STUDY (1-3)
PR: Consent of Director. Specialized independent study determined by the students' needs and interests. May be repeated up to 6 credit hours. (S/U only.)

ACG 4911 INDEPENDENT RESEARCH (1-4)
PR: Consent of Director. Individual study contract with instructor and director required. The research project will be mutually determined by the student and instructor. May be repeated up to 8 hours.

ACG 4931 SELECTED TOPICS IN ACCOUNTING (1-4)
PR: CI. The course content will depend on student demand and instructor's interest.

ACG 4986 HONORS ACCOUNTING SEMINAR (3)
PR: Honors accounting student in final semester of bachelor's program. Use of case studies to explore the interaction of accounting and business topics that have been previously emphasized in separate courses.

ACG 5201 ADVANCED FINANCIAL ACCOUNTING IV (3)
PR: ACG 4123. Accounting for business combinations, preparation of consolidated financial statements, home office/branch relationships, foreign operations and transactions, and partnerships.

ACG 5675 INTERNAL AND OPERATIONAL AUDITING (3)
PR: ACG 3113 and ACG 3401; CR: ACG 4632. To provide students with an opportunity to learn about the theory and practice of Internal and Operational Auditing and to apply relevant audit principles and techniques to selected audit problems.

ACG 5935 SELECTED TOPICS IN ACCOUNTING (1-4)
PR: CI. To allow advanced undergraduate students and graduate students to research and study contemporary and emerging topics in the field. May be repeated up to 6 credit hours.

TAX 4001 CONCEPTS OF FEDERAL INCOME TAXATION (3)
PR: ACG 2021. Major concepts used in taxation of income by the federal government including enactment of tax laws, basic tax research, preparation of basic tax returns and exploration of tax policy issues.

TAX 5015 FEDERAL TAXATION OF BUSINESS ENTITIES (3)
PR: TAX 4001. Tax issues encountered by small businesses. Includes tax planning, capital formation and preservation, tax compliance and tax alternatives.

Economics

ECO 1000 BASIC ECONOMICS -SS (3)
Survey of Economic principles and issues. scarcity, choice, markets, prices, the monetary system, unemployment, inflation, international trade, and finance. (No credit after completing ECO 2023/2013.)

ECO 2013 ECONOMIC PRINCIPLES (MACROECONOMICS) -SS (3)
Introduction to the theory of income determination with emphasis on monetary and fiscal policies. Objectives of full employment, price stability, economic growth, and balance of payments stability.
**ECS 4003 COMPARATIVE ECONOMIC SYSTEMS**

- PR: CI. Specialized independent study determined by the student's needs and interests. May be repeated up to 6 credit hours. (S/U only.)

**ECS 3013 ECONOMIC DEVELOPMENT (3)**

- PR: ECO 1000 or ECO 2013 and 2023. Survey of research on women, men and work in the labor market and the household. Focuses on the economic status of women. Includes historical perspective, examination of the family as an economic unit, changing work roles, and gender differences in occupation and earnings.

**ECP 4506 ECONOMICS OF CRIME (3)**

- PR: ECO 3100 or ECO 3101 with a grade of "C" or better. Determinants of wage and employment levels; occupational, industrial and geographical wage differentials; union and public policy effects on labor markets; the economics of discrimination: inflation and unemployment.

**ECP 4303 PRINCIPLES OF INVESTMENTS (3)**

- PR: FIN 3403 or CI. A study of factors affecting international business, assessment of risks, international managerial finance; institutions and instruments of international business finance.

**FIN 4324 BANK MANAGEMENT (3)**

- PR: FIN 4504 and FIN 4303. Application of traditional finance concepts to the management of commercial banks with emphasis on decision making and problem solving techniques to major problem areas in banking.

**FIN 4506 ADVANCED INVESTMENT ANALYSIS AND MANAGEMENT (3)**

- PR: FIN 4504. A comprehensive survey of security analysis and portfolio management. The course will utilize a quantitative approach to investment selection and management.
Financial Information Systems and Decision Sciences

CGS 2100 Computers in Business (3)
A study of the use and impact of computers in all areas of business organizations. Course includes hands-on experience and the use of software packages for business analysis.

ISM 3011 Management Information Systems (3)
PR: CGS 2100; ACG 2021; ACG 2071 or equivalent. The study of information management, management information requirements and information systems in modern organizations. (May not be counted toward major requirements in MIS.)

ISM 3113 Systems Analysis and Design (3)
PR/CR: ISM 3230. Study of the techniques and procedures used in assessing information requirements, analyzing information flows and processing activities, and designing computer-based business systems.

ISM 3239 Introduction to Business Application Development (3)
PR: CGS 2100 or equivalent, or CI. Introduction to problem-solving and business application development. Review of programming and programming languages. Basic programming concepts are presented in a modern programming language. Principles of programming style are emphasized. Projects cover business applications.

ISM 3232 Advanced Business Application Development (3)
PR: ISM 3230. Advanced presentation of business application development using a modern programming language. Advanced topics include data structures, indexing, file processing, and user interfaces. Good program design techniques are emphasized. Advanced business applications are developed. (May not be counted toward major requirements in MIS prior to 1998/99 Catalog.)

ISM 3431 Management Science Production/Operations Management Applications (3)
PR: MAC 2233. Fundamentals of production operations management (POM) and fundamentals of management science (MS). The application of MS models in the solution of POM problems.

ISM 4432 Advanced Database Design and Administration (3)
PR: ISM 3113, ISM 3230 with grades of "C" or better. Principles of database design/management for mainframe, micro, and client/server environments; including data modeling, physical vs. logical representation and back-up and recovery management.

ISM 4433 Advanced Systems Analysis and Design (3)
PR: ISM 3230, ISM 3113, ISM 4212. This course builds on previous class and/or work experience in systems development, with particular emphasis on the use of an integrated CASE tool on a team project. Students will gain an understanding of systems development problems and approaches using a variety of methods, such as, lectures, discussion, team presentations, guest speakers, demonstrations, and computer use.

ISM 4213 Advanced Database Administration (3)
PR: ISM 3113, ISM 4212. Essential concepts of database administration in a business environment are covered in order to prepare students to understand and deal with database administration issues and concepts. Students gain hands-on experience by administering a database environment and completing assignments that involve resource management, data administration, security, backup, recovery and database design issues.

ISM 4220 Business Data Communications (3)
PR: ISM 3113. Fundamentals of data communication, including network architectures, communication protocols, transmission standards and media access control methods.

ISM 4233 Information System Interface Design (3)
PR: ISM 3230. The fundamental concepts of human perception and cognition are studied in order to develop effective human-computer interfaces. Various types of interfaces are examined. Students will develop human-computer interfaces via state-of-the-art development languages and systems tools.

ISM 4234 Object-Oriented Design and Development (3)
PR: ISM 3232. This course presents an object-oriented approach to software development of business information systems. Students will learn to create object models of the business world and to develop information system designs based on these object models. Designs will be implemented by use of the C++, Java, or other OO (object-oriented) programming languages.

ISM 4240 Distributed Operating Systems (3)
PR: ISM 3230. Introduction to distributed operating systems fundamentals such as distributed systems architecture, file structures, client-server, open systems, resource allocation, and basic tools for manipulating these operating environments.

ISM 4290 Senior Seminar in Information Systems (3)
PR: ISM 3113, ISM 4300. A seminar covering advanced
topics in systems management, analysis and design. Application of these procedures to actual or hypothetical cases.

**ISM 4300 MANAGING INFORMATION RESOURCES** (3)
PR: ISM 3113, ISM 4212 and ISM 4220 with grades of "C" or better. Current issues in information systems management focusing on organizational policies, procedures and standards for managing distributed computing resources.

**ISM 4305 INFORMATION SYSTEMS CONTROLS** (3)
PR: MIS Major or CI. A study of information systems control and its application in system design and system management. Students who complete this course will not receive credit for ACG 4621.

**ISM 4400 DECISION SUPPORT SYSTEMS APPLICATIONS-COMPUTER ASSISTED DECISION MAKING** (3)
PR: FIN 3403, QMB 3200, and ISM 3113. Methods and techniques for developing systems to support decision making in business organizations.

**ISM 4400 ELECTRONIC COMMERCE SYSTEMS** (3)
PR: MIS Major or CI. This course is designed to familiarize students with the opportunities and challenges associated with electronic commerce, to explore the underlying technologies used in implementing electronic commerce systems, and to develop the practical skills needed to design and develop effective Web pages.

**ISM 4566 INDEPENDENT STUDY** (1-6)
Independent study as directed by designated faculty. May be repeated up to 6 credit hours. (S/U only)

**ISM 4930 SELECTED TOPICS IN MIS** (1-3)
Selected topics in MIS.

**ISM 4930 INDEPENDENT RESEARCH** (1-6)
PR: CI. Individual study contract with instructor and department chairperson required. The research project will be mutually determined by the student and instructor. No more than 3 hours may be counted as MIS elective.

**MAN 4504 OPERATIONS MANAGEMENT: A SYSTEMS APPROACH** (3)
PR: ISM 3431 or equivalent. Studies the problems of operations in all types of enterprises in both the public and private sectors. Emphasis is placed on the application of various decision science methodologies to problem situations.

**MAN 4507 OPERATION PRODUCTION SYSTEMS** (3)
PR: MAN 4504 or CI. Study of closed loop production planning and control systems. Master production planning, inventory management, materials requirements planning, capacity, management, production activity. Relationship to organizational effectiveness.

**QMB 2100 BUSINESS AND ECONOMIC STATISTICS I - 6A -QM** (3)
PR: MAC 2233. Description of sample data; calculation of probabilities, frequency functions of random variables, the binomial and normal distributions; sampling theory and estimation; test of hypotheses; elements of Bayesian decision theory.

**QMB 3200 BUSINESS AND ECONOMIC STATISTICS II** (3)
PR: MAC 2233, QMB 2100. Theory and use of statistical inference. Point and interval estimation; criteria for choosing estimators and decision rules; hypotheses tests; analysis of variance; correlation; multiple regression; and non-parametric methods.

**QMB 4600 QUANTITATIVE APPROACH FOR BUSINESS DECISIONS** (3)
PR: ISM 3431. The use of systematic approaches and management science tools for decision making and problem solving in an organizational setting. Emphasis is on quantitative approaches for problem identification, analysis, choice and implementation.

**QMB 4703 SIMULATION AND MODELING TECHNIQUES** (3)
PR: ISM 3431 or CI. A study of manual and computer simulation techniques and their application to problem solving in management (behavioral and quantitative). Knowledge of a computer language and the basic tools and techniques of management science is advised.

**MAN 3025 PRINCIPLES OF MANAGEMENT** (3)
Study of the fundamentals of management. It treats topics in organizational theory, organizational behavior, and interpersonal relations which are relevant to effective management performance.

**MAN 3240 ORGANIZATIONAL BEHAVIOR ANALYSIS** (3)
PR: MAN 3025. The course covers research literature relevant to organizational functioning including behavioral effects of power and authority, formal organization, structural variation, leadership, motivation, and communication.

**MAN 3301 HUMAN RESOURCE MANAGEMENT** (3)
To develop a broad exposure to new approaches, techniques, and future trends in the management of personnel. A study of the major functions in personnel including job analysis, manpower planning, selection, performance evaluation, training, and wage and salary administration.

**MAN 3401 INDUSTRIAL RELATIONS** (3)
A conceptualization of the administrative problems arising from industrialization. Emphasis on the relationship between management and employee representatives in private and public employment.

**MAN 4120 MANAGERIAL BEHAVIORAL LABORATORY** (3)
PR: MAN 3240 or equivalent. Development of direct understanding of personnel administration, and intergroup factors present in organizational interaction. Stress is on a series of experiential exercises and written application of results within a laboratory setting.

**MAN 4129 THEORY AND PRACTICE OF MANAGEMENT SKILLS** (3)
This course involves the transferece of management theories into practice. It requires the active involvement of students in developing and practicing the skills needed to be a successful manager.

**MAN 4280 ORGANIZATIONAL DEVELOPMENT AND CHANGE** (3)
PR: MAN 3240 or CI. A lab course where students experimentally apply behavioral science techniques in an "action-research" framework to the cycle of planned change so as to build a more effective organization.

**MAN 4282 ORGANIZATIONAL ASSESSMENT** (3)
PR: MAN 3240. The analysis and measurement of factors which influence organizational effectiveness and the quality of work life. Data based cases will be used by students to assess managerial and supervisory skills and to measure organizational functioning and work design.

**MAN 4402 EMPLOYMENT LAWS** (3)
Federal and state regulation of the employment relationship, including wage and hour laws; EEO, affirmative action programs; employee benefits; insurance; workers' compensation, safety, health, employee's personal rights; collective bargaining legislation.

**MAN 4430 SEMINAR IN NEGOTIATIONS AND ADMINISTRATION OF LABOR AGREEMENTS** (3)
Case studies in contract negotiation, administration, grievance settlement, and arbitration. Assumes familiarity with industrial relations system.

**MAN 4600 INTERNATIONAL MANAGEMENT** (3)
PR: MAN 3025, Senior Standing or CI. A study of the role and importance of the international/multinational firms in the global environment. Impact of the political, regulatory, and economic dimensions will be considered from the manager's perspective.

**MAN 4802 ENTREPRENEURSHIP AND SMALL BUSINESS MANAGEMENT** (3)
PR: ACC 2021, ACC 2071, MAR 3023, or CI. Study of the factors involved in starting and managing a small- to medium-sized business. Emphasis on conduct of pre-business feasibility study, start-up of business, successful management of the firm, and options for succession or termination.

**MAN 4804 SMALL BUSINESS MANAGEMENT COUNSELING** (3)
PR: MAN 4802 or CI. Field application in small business settings by (a) analyzing an on-going small business and developing recommendations for making improvements;
or (b) conducting a feasibility study for a new enterprise and developing a strategy for implementation if favorable.

MAN 4905 INDEPENDENT STUDY  
(1-3)  
PR: Cl. Specialized independent study determined by the students needs and interests. May be repeated up to 8 credit hours. (S/U only.)

MAN 4930 SELECTED TOPICS IN MANAGEMENT  
(1-3)  
PR: Cl. Topics to be selected by instructor and department chairperson for pertinent Management issues.

MAN 4931 INDEPENDENT RESEARCH  
(1-4)  
PR: Cl. Individual study contract with instructor and department chairperson required. The research project will be mutually determined by the student and instructor. May be repeated up to 8 hours.

Marketing

MAR 2931 SELECTED TOPICS IN MARKETING  
(1-4)  
PR: Cl. Topics to be selected by department chairman. May be repeated if topics vary. Not available for credit to upper-level students who have been admitted to the College of Business. May be repeated up to 6 credit hours.

MAR 3023 BASIC MARKETING  
(3)  
PR: ACG 2021, ECO 2013, ECO 2023, or Cl. Survey of the marketing of goods and services within the economy. Attention is paid to the impact of marketing on other functional areas of business as well as society.

MAR 3400 PROFESSIONAL SELLING  
(3)  
PR: MAR 3023 or Cl. A study of the stages of the professional selling process, and the role of sales in today's marketing environment. Emphasis on learning adaptive selling techniques and developing effective interpersonal communications skills. Sales careers are examined.

MAR 3613 MARKETING RESEARCH  
(3)  
PR: QMB 3200, MAR 3023. A study of research methods and techniques applicable to problem solving in marketing. Attention is also given to defining information needs, determining the value of information, interpreting and reporting information for use in marketing decision making.

MAR 3823 MARKETING MANAGEMENT  
(3)  
PR: MAR 3023. An applications oriented study of the marketing function at an intermediate level. Emphasis upon techniques for analysis and problem-solving. Builds upon the principles and concepts learned in MAR 3023, and provides a strong foundation for the remaining courses in the marketing curriculum.

MAR 4156 INTERNATIONAL MARKETING  
(3)  
PR: MAR 3023. A study of procedures and problems associated with establishing marketing operations in foreign countries. Includes the institutions, principles and methods involved in the solution of these business problems as well as the effects of national differences on business practices and buyer behavior.

MAR 4203 CHANNELS MANAGEMENT  
(3)  
PR: MAR 3023. A detailed study of marketing channels as a functional area of marketing management responsibility and as a part of marketing strategy. Attention is given to wholesaling and retailing and their structural, dynamic inter-relationships including distribution logistics.

MAR 4213 LOGISTICS AND PHYSICAL DISTRIBUTION MANAGEMENT  
(3)  
PR: MAR 3023 or Cl. A study of logistics in the marketing of goods and services. Includes a description and analysis of the logistics environment as well as components of the physical distribution system with emphasis on information flows and the application of quantitative techniques used in establishing and coordinating service levels.

MAR 4231 RETAILING MANAGEMENT  
(3)  
PR: MAR 3023. A comprehensive study of the retailing function at an intermediate level. Emphasis is placed on developing the problem-solving and decision-making skills required of the sales manager in the modern market-oriented company.

MAR 4403 SALES MANAGEMENT  
(3)  
PR: MAR 3023 or Cl. A study of sales management and strategy as a subset of marketing management. Emphasis is placed on developing the problem-solving and decision-making skills required of the sales manager in the modern market-oriented company.

MAR 4453 BUSINESS TO BUSINESS MARKETING  
(3)  
PR: MAR 3023. A study of the marketing of goods and services to the industrial and institutional sectors. Includes characteristics of the markets and channels of distribution, sales, management, research and promotional practices, marketing policies and strategies.

MAR 4503 BUYER BEHAVIOR  
(3)  
PR: MAR 3023. A study of the basic concepts of buyer behavior, including pre- and post-purchase attitudes and behavior patterns, information processing relating to the functional areas of marketing and the buyer's decision-making process. Managerial applications to marketing are emphasized.

MAR 4824 MARKETING MANAGEMENT PROBLEMS  
(3)  
PR: Senior Standing, MAR 3823, MAR 3613, and two other 4000 level marketing courses, or Cl. The integration of marketing knowledge applied to decision roles in managing the total marketing effort of firms, and coordination with other major functional areas on specific problems.

MAR 4893 INDEPENDENT RESEARCH  
(1-3)  
PR: Cl. Individual study contract with instructor and department chairperson required. The research project will be mutually determined by the student and instructor. May be repeated up to 6 credit hours.

MAR 4905 INDEPENDENT STUDY  
(1-3)  
PR: Cl. Individual study contract with instructor and department chairperson.

MAR 4933 SELECTED TOPICS IN MARKETING  
(1-3)  
PR: Cl. Topics to be selected by instructor and department chairperson.
The College of Education is accredited by the National Council for Accreditation of Teacher Education (NCATE). All Teacher education programs must meet the requirements of chapter 6A-5, Rules of the State Board of Education of Florida, and have “Approved Program” status. The Mission of the College is to "improve the preparation of teachers, other professional educators, and professional support personnel and to discover improved teaching, learning, and leadership techniques through research and practice." The College emphasizes student learning outcomes relevant for the world of the 21st century. Program goals focus on graduating highly competent teachers who reflect on their own professional practice, who have a deep interest in intellectual inquiry and who continue their professional development.

The College of Education is committed to a continuous and systematic examination of the professional program of teacher education. Professional practice is examined under controlled conditions, which make possible an objective appraisal of effects in terms of learning outcomes. The University of South Florida follows a University-wide approach to teacher education. Its programs for the preparation of teachers represent cooperative effort in planning and practice by faculties of in appropriate academic areas. Liberal Arts courses and courses in the content areas are offered through the College of Arts and Sciences. Courses in the University which are primarily designed for teacher candidates are taught by the College of Education faculty.

BACCALAUREATE-LEVEL DEGREE PROGRAMS

Admission to the College

All students who plan to teach must apply for admission to a teacher education program through the Student Academic Services Office of the College of Education. Admission to an upper level teacher education program is contingent upon meeting the following minimum college requirements:

1. Completion of a College of Education application form.
2. Completion of the General Education requirements.
3. Completion of all portions of the CLAST with passing scores. No Exemptions.
4. Completion of the following prerequisites:
   - EDH 1005/2005 Introduction to Education
   - EDG 2701 Teaching Diverse Populations
   - EME 2040 Introduction to Educational Technology
   - At least 9 of the 15 hours of electives beyond the General Education requirements

5. An overall minimum GPA of 2.5 on all attempted hours plus a minimum ACT score of 20 or SAT score of 960 (840 if taken before April 1, 1995) will be required for full admission to the College. An overall minimum GPA of 2.25 on all attempted work will be accepted for students with a 22 or higher ACT score or SAT score of 1030 (940 if taken before April 1, 1995).

Admission to programs will be based upon the applicant’s performance on either test. If the number of applicants exceed the capacity of a program, preference will be given to students with higher scores. Students who meet all other requirements but have not achieved minimum test scores or minimum GPA may be considered under Affirmative Action.

6. Additional criteria as may be established by each program. (See Admission to Programs below.)

Admission to Programs

Admission to some programs is based on additional selection criteria beyond the College requirements stated above. Some programs accept a limited number of students. Additionally, some programs require students in a specified semester. Students should refer to the specific program description in the catalog for additional admissions information and prerequisites. Information regarding admission requirements for programs may also be obtained from the Student Academic Services, College of Education (EDU 106).

Time Limitations

The College of Education may accept professional education and specialization coursework completed at this University or at other accredited institutions as follows:

1. Courses completed within the last five years may be accepted.
2. Courses completed over five years but less than ten years ago must have the approval of the chairperson from the department in which the equivalent course is taught.
3. Courses completed ten years ago or longer will count as elective credit only.

Qualification for Internship Experience

The final internship experience is observing and teaching in early childhood, elementary, secondary, or exceptional schools. Internship sites include the entire spectrum of sites available in the various counties served by USF. Special vocational sites are arranged through the Adult and Vocational Education Department. Other than Senior Seminars and EEX 4070, students may not enroll in additional courses during the semester in which the final internship occurs. Special requirements for enrollment in the final internship and seminar courses are:

1. Admission to the College of Education.
2. Completion of General Education, "Gordon Rule," and all other program prerequisites.
3. Completion of an application for the final internship by the deadlines noted below.
4. Elementary, Early Childhood, and Physical Education programs require completion of all professional education and specialization coursework except for EEX 4070. Special Education programs require completion of all professional education and specialization coursework. Secondary and Vocational Education Programs require completion of the professional course sequence except for EEX 4070/EDF 4400 and a minimum of two thirds of the specialization coursework.
5. Elementary, Early Childhood, and Physical Education programs require a combined grade point average of 2.5 in professional education and specialization coursework as well as an overall USF GPA of 2.5. Special Education programs require an overall USF GPA of 2.5. Secondary and Vocational Education programs require a minimum GPA of 2.5 in professional education and specialization coursework or an overall USF GPA of 2.5.
6. Students must earn a "C" grade or higher in their required major courses. "SU" grades are not accepted.

Applications for internship may be obtained in the Office of Student Academic Services. Applications for Fall Semester are due the preceding January 30. Applications for Spring Semester are due the preceding June 30.

College Requirements for Graduation

To be certified by the College of Education for graduation, a student must have earned 120 semester hours credit. A minimum overall USF grade-point average of 2.5 or a minimum GPA of 2.5 in teaching specialization courses and a minimum GPA of 2.5 in the Professional Education sequence is required. The Physical Education, Elementary and Early Childhood programs require a combined grade point average of 2.5 in professional education and specialization as well as an overall USF GPA of 2.5. Satisfactory completion of the internship is also required. Prior to completion of the internship, the student must pass both the Subject Area (SAE) for the appropriate area and the Professional Education (PED) sections of the Florida State Teacher Certification Examination (FTCE). A student must also have completed the major requirements in a state-approved teacher education program (which includes general preparation, teaching specialization, and professional preparation). A
minimum of 8 credits in professional courses in addition to internship, and 12 credits in specialization courses must have been earned at USF. The student must complete a minimum of 30 hours after admittance to an upper level program and must meet all University requirements.

Normally, the college will recommend the granting of a Bachelor of Science (BS) degree. To obtain a Bachelor of Arts (BA) degree, the student must meet the Foreign Language Competency (see graduation requirements in front of catalog).

### SunCoast Area Teacher Training Program (SCATT)

SCATT is an award-winning teacher training program designed to enhance the already outstanding teacher preparation programs currently offered within the College of Education. The Suncoast Area Teacher Training Program celebrates excellence in teaching while emphasizing professionalism in a diverse society. SCATT offers students a variety of activities, workshops and field seminars and field trips to enrich their knowledge base as educators. The SCATT program offerings are based on the research on effective teaching strategies, and encourage reflective practice.

The entrance requirements for the program help identify those students who have demonstrated high levels of academic achievement, leadership potential and those who have a commitment to aspire to the highest standards of the teaching profession. To graduate as a SCATT student, individuals participate in activities each semester prior to final internship which extend "above and beyond" the requirements of their academic curricula. In addition, they are offered the opportunity to network with majors from programs other than their own. During final internship, SCATT students participate in management and professionalism. SCATT also helps prospective employers within the University’s service area fill teaching positions with highly qualified graduates.

To apply to the SCATT program, students must be admitted to the College of Education in a program that requires a full-time internship experience, complete an application available from the SCATT office (located on the second floor of the David T. Anchin Center, just off the rotunda), and attend a scheduled Interview Orientation to become familiar with the expectations of SCATT graduates. For further information come to the SCATT office, call (813) 974-2061, or visit our website at www.coedu.usf.edu/SCATT

### Programs Leading to the Baccalaureate Degree

The College of Education has programs leading to the Bachelor of Science degree* in the following fields:

<table>
<thead>
<tr>
<th>Program</th>
<th>Department</th>
<th>Code</th>
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<tbody>
<tr>
<td>Behavior Disorders</td>
<td>Special Education</td>
<td>(BBD)</td>
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<tr>
<td>Business and Office</td>
<td>Adult &amp; Vocational</td>
<td>(BBE)</td>
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<td>Education</td>
<td>Education</td>
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<tr>
<td>Early Childhood</td>
<td>Childhood/Language Arts/Reading Education</td>
<td>(BEC)</td>
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<tr>
<td>Elementary Education</td>
<td>Childhood/Language Arts/Reading Education</td>
<td>(BEE)</td>
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<tr>
<td>English Education</td>
<td>Secondary Education</td>
<td>(BEN)</td>
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<td>Foreign Language</td>
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<td>French</td>
<td>Education</td>
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<tr>
<td>German</td>
<td>Adult &amp; Vocational</td>
<td>(BBF)</td>
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<tr>
<td>Italian</td>
<td>Special Education</td>
<td>(BFG)</td>
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<td>Russian</td>
<td>Special Education</td>
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<td>Spanish</td>
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<td>Industrial-Technical</td>
<td>Adult &amp; Vocational</td>
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<td>Education</td>
<td>Education</td>
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<td>Mathematics</td>
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<td>Education</td>
<td>Special Education</td>
<td>(BMR)</td>
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<td>Mental Retardation</td>
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#### Physical Education
- K-8 (BPS)  
- 6-12 (BPS)  
- Social Science (BSS)  
- Chemistry (BSC)  
- Biology (BSB)  
- Physics (BSY)  
- EME 2040 Introduction to Educational Technology (3)  
- English Education (BEN)  
- Reading Education (BEC)  
- Reading Education (BEE)  
- Introduction to Education (3)  
- Teaching Diverse Populations (3)  
- Teaching Language Arts (3)  
- Teaching Mathematics (3)  
- Reading Education (BEC)  
- Reading Education (BEE)  
- Social Science (BSS)  
- Chemistry (BSC)  
- Biology (BSB)  
- Physics (BSY)  
- EME 2040 Introduction to Educational Technology (3)  
- Electives (may be specified by program) (21)

#### Degree Requirements

There are five distinct areas in the teacher education program, and all teacher candidates must meet certain minimum requirements in each. The five areas and their requirements are as follows:

1. **General Education Requirements**  
   - (36 credit hours)

2. **Common Prerequisites**  
   - (24 credit hours)

3. **Professional Education Core**  
   - (25-30 credit hours)

4. **Teaching Specialization Preparation**  
   - (27-49 credit hours)

5. **Liberal Arts Exit Requirements**  
   - (9 credit hours)

   - a. Six hours from the list of approved courses dealing with Major Works and Major Issues.*
   - b. Three hours of Literature and Writing from the list of approved courses.*

   * See advisor for approved courses.

Three of these nine hours may be taken S/U and up to six hours may be included in the program requirements. One of these courses must be taken outside the College of Education.

### DEPARTMENTS AND PROGRAMS

The College of Education is organized into 7 departments. Each department has one or more programs which are listed alphabetically in the following departmental section.

#### Department of Leadership Development

The Leadership Development Department at USF offers degrees designed to prepare teachers and leaders in the various fields of Vocational-Technical and Adult Education and in the human resource development field. The Bachelor of Science (B.S.) degree is offered in the areas of: Business and...
Office Education, Industrial-Technical Education, and Technology Education.

■ BUSINESS AND OFFICE EDUCATION

The Business and Office Education curriculum is designed to serve students who wish to focus on the needs of today's workplace, and combine teaching with business experience while achieving initial teaching certification for grades 6-12.

• Requirements for the B.S. Degree (BBE):

  General Education and Professional Education requirements are listed under Teacher Education Program.

Prerequisites (State Mandated Common Prerequisites):

  These prerequisites must be met by transfer students as well as USF students.

  A grade of "C" is the minimum acceptable grade.

  EDF 1005/2005 Introduction to Education
  EDF 2701 Teaching Diverse Populations
  EME 2040 Introduction to Educational Technology

  (Equivalent course or demonstrated competency may be substituted)

  ACG X011 Financial and Managerial Accounting I
  ACG X011 Financial and Managerial Accounting II
  ECO X013 Economic Principles (Macroeconomics)
  ECO X023 Economic Principles (Microeconomics)
  XXXXXX Electives in Business Administration, 3 semester hours

  At least one course taken to meet the natural science requirements in General Education must include a laboratory component.

  In addition to EDG 2701, Lower division courses must include 6 credit hours with an international or diversity focus. Professional education courses taken at the community college will transfer as general electives.

Specialization Requirements (37 cr. hrs.):

  BTE 4948 Field-Based Seminar (3)
  BTE 4909 Directed Study (3)
  BTE 4401 Special Methods (4)
  BUL 3112 Business Law I (3)
  CGS 2000 Computers in Business I (3)
  DEC 4161 Program Management (3)
  ENC 3210 Technical Writing or (3)
  ENC 3213 Professional Writing (3)
  EVT 4651* Equity in the Schools and Workplace (3)
  FIN 3100 Personal Finance (3)
  MAN 3025 Principles of Management (3)
  Business Elective (3)
  Word Processing (3)

*Approved Liberal Arts Exit Requirement

■ INDUSTRIAL-TECHNICAL EDUCATION

• Requirements for the B.S. Degree (BIT):

  General Education requirements are listed under Teacher Education Program.

INDUSTRIAL-TECHNICAL EDUCATION TRACK:

  Enrollment in the Industrial-Technical Education program is restricted to persons with employment experiences qualifying them to teach in Industrial, Technical, Health Occupations, or Public Service areas.

  Special provision is made for students to satisfy four (4) of the required six (6) years of work experience in a specific occupation by completing an Associate of Science degree program in a technological specialty or successfully completing an appropriate occupational competency exam.

  Acceptability of work experience will be determined by the program advisor.

Students may validate up to 30 semester hours of credit through the Occupational Competency Testing Program, or appropriate licensure or certificate.

Prerequisites (State Mandated Common Prerequisites):

  These prerequisites must be met by transfer students as well as USF students.

  A grade of "C" is the minimum acceptable grade.

  EDF 1005/2005 Introduction to Education
  EDF 2701 Teaching Diverse Populations
  EME 2040 Introduction to Educational Technology

  (Equivalent course or demonstrated competency may be substituted)

  An additional 15 semester hours should be completed in a Vocational Specialty Area. At least one course taken to meet the natural science requirements in General Education must include a laboratory component.

  In addition to EDG 2701, Lower division courses must include 6 credit hours with an international or diversity focus. Professional education courses taken at the community college will transfer as general electives.

Specialization and Professional (56 cr. hrs.):

  ADE 4384 Working With Adult Learners (3)
  EDF 3604 Social Foundations of Education (3)
  EIV 4210* Program Management (4)
  EIV 4360 Special Teaching Methods: Industrial-Technical Education (4)
  EVT 4065 History & Principles of Vocational Education (4)
  EVT 4084 Professional Development in Industrial Technical Education (3)
  EVT 4165 Curriculum Construction: Industrial-Technical Education (4)
  EVT 4365 Basic Teaching Methods in Vocational Education (4)
  EVT 4367 Assessing Student Skill in Industrial-Technical Education (4)
  EVT 4562 Vocational Education for Special Needs Students (4)
  EVT 4651 Equity in Schools & Workplace (Exit) (3)
  EVT 4936 Senior Seminar in Education (2)
  EVT 4940 Internship (10)
  EVT 4946* Supervised Field Experience: Industrial-Technical Education (4)

*Another course may be substituted with advisor's approval.

TECHNOLOGY EDUCATION TRACK:

  Within the EVT program, students can pursue state certification in Technology Education. In general, students enrolling in the Technology Education program are expected to have successfully completed, at a community college, most of the technological laboratory courses required for Florida Teacher Certification. Teacher certification requires students to have 30 semester hours, with three (3) semester hours in each of the following areas: (a) materials and processes, (b) drafting and design, (c) energy, (d) graphics, (e) electronics, (f) construction, and (g) industrial systems.

  Students entering this program will have their transcripts evaluated to determine if all technical course requirements have been met. If the student has not completed the technical course requirements, the deficiencies may be corrected by enrolling in the required course(s) at a community college. Since this evaluation procedure is unique to the Technology Education Program, the application for admission should clearly indicate the desired major field as Technology Education.

  The program of studies includes both course work and extensive field experience in school settings. This is to enable students to integrate theory with teaching practice.

  Technology Education students must complete the General Education Requirements of 36 semester hours, Prerequisites of 24 semester hours, the Professional Education Core Requirements of 25-30 semester hours, the Technical Course
Requirements of 30 semester hours, and 19 semester hours in Adult and Vocational Education.

Prerequisites (State Mandated Common Prerequisites):
These prerequisites must be met by transfer students as well as USF students.
A grade of “C” is the minimum acceptable grade.
EDF 1005/2005 Introduction to Education
EDG 2701 Teaching Diverse Populations
EME 2040 Introduction to Educational Technology
(Equivalent course or demonstrated competency may be substituted)
An additional 15 semester hours should be completed in a Technological Area of Specialization. At least one course taken to meet the natural science requirements in General Education must include a laboratory component.
In addition to EDG 2701, Lower division courses must include 6 credit hours with an international or diversity focus. Professional education courses taken at the community college will transfer as general electives.

Specialization (19 cr. hrs.):
EIA 3192 Technology Education and Society (4)
EIA 4360 Special Teaching Methods: Technology Education (3)
EIV 4210 Program Management: Industrial-Technical Education (4)
EVT 4165 Curriculum Construction: Industrial-Technical Education (4)
EVT 4365 Basic Teaching Methods in Vocational Education (4)
Plus electives selected with advisor approval.

Department of Childhood/Language Arts/Reading Education
The Childhood Education/Language Arts/Reading Education Department has the responsibility for the development and supervision of programs leading to the Bachelor of Science Degree in Early Childhood Education and Elementary Education.
Recommended prerequisites for admission to these programs include two American History courses, one American History and one American National Government course. These courses may be taken as part of the general education requirement.
Admission is limited to fall and spring semesters.

Early Childhood Program
Student may complete a state-approved program to be eligible for licensure in Early Childhood Education Pre-Kindergarten/Primary (age 3 - Grade 3). The current program of studies includes both coursework and extensive field experiences in early childhood settings to enable students to integrate theory with teaching practice. Upon successful completion of the required courses and the associated internships, Early Childhood majors will be eligible for certification in Pre-Kindergarten/Primary (age 3 - Grade 3).

Elementary Education Program
Students may complete a state-approved program to be eligible for certification in Elementary Education (Grades 1-6). Degree and certification requirements are subject to change. The current program of studies includes both coursework and extensive field experience in elementary school settings to enable students to integrate theory with teaching practice.

Early Childhood and Elementary Education Programs
Early Childhood and Elementary majors will be assigned to a specified sequence of courses to be followed throughout the program enrollment. All internships and field experiences must be successfully completed as a member of an internship team under the supervision of a faculty team leader. Students who withdraw from or who have unsatisfactory grades in the field experiences or internships must petition the department Professional Standards Committee before they will be allowed to repeat the internships.
Students must have an overall USF GPA of 2.5 and a GPA of 2.5 in the combined Professional Core and Teaching Specialization prior to final internship and graduation.
Elementary part-time students (students planning to take 9 hours or less per semester) must participate in a modified program schedule and plan to meet internship requirements associated with the programs. These requirements include being available to participate in the internships during regular school hours.

EARLY CHILDHOOD EDUCATION: Pre-Kindergarten/Primary
- Requirements for the B.S. Degree (BEC):
  General Education Requirements and Exit Courses are listed under Degree Requirements.

Prerequisites (State Mandated Common Prerequisites):
These prerequisites must be met by transfer students as well as USF students.
A grade of “C” is the minimum acceptable grade.
EDF 1005/2005 Introduction to Education
EDG 2701 Teaching Diverse Populations
EME 2040 Introduction to Educational Technology
(Equivalent course or demonstrated competency may be substituted)
Students should also complete 15 hours beyond those taken to meet General Education Requirements to include one speech, one natural science (and lab if not already taken), one humanities/fine arts, one social science, and one math.
In addition to EDG 2701, Lower division courses must include 6 credit hours with an international or diversity focus. Professional education courses taken at the community college will transfer as general electives.

Professional and Specialization (58 cr. hrs.):
Professional Education Core (28):
EDF 4111 Child Growth and Learning (3)
EEC 4940 Internship: Early Childhood (10)
EEC 4936 Senior Seminar (2)
EEC 4941 Field Experience I (3)
EEC 4942 Field Experience II (3)
EEC 4943 Field Experience III (3)
EDG 4909 Young Children With Special Needs (3)
EDG 4909 Assess., Eval., Reporting Progress (3)
EDG 4909 Teaching LEP Students K-12 (3)

Specialization (30):
EEC 4008 Literature in Early Childhood Education (Exit) (3)
EEC 4203 Programs for Young Children (3)
EEC 4211 Integrated Curriculum: Science and Mathematics (3)
EEC 4212 Integrated Curriculum: Social Sciences/Humanities & Art (3)
EEC 4300 Cognitive Experiences for Young Children (3)
EEC 4303 Creative and Affective Experiences for Young Children (3)
EEC 4408 Child, Family & Teacher Relations (3)
EEC 4706 Language and Emerging Literacy (3)
HSC 3301 Health, Safety, Nutrition and Motor Skills for the Young Child (3)
RED 4310 Early Literacy Learning (3)

ELEMENTARY EDUCATION
- Requirements for the B.S. Degree (BEE):
  General Education and Exit Course requirements are listed under Degree Requirements.
Prerequisites (State Mandated Common Prerequisites):
These prerequisites must be met by transfer students as well as USF students.
A grade of “C” is the minimum acceptable grade.
EDF 1005/2005 Introduction to Education
EDG 2701 Teaching Diverse Populations
EME 2040 Introduction to Educational Technology
(Equivalent course or demonstrated competency may be substituted).

In addition to these three education courses, students must also take:
- a minimum of 9 hours in communications, including a speech course;
- a minimum of 9 hours in mathematics, excluding MAT 1033 and a computer course;
- a minimum of 9 hours in the natural and/or physical sciences, with a minimum of one associated lab;
- a minimum of 9 hours in the humanities; and
- a minimum of 9 hours in the social sciences, including a psychology or human growth and development course.

These courses may meet General Education Requirements as well as fulfill Prerequisites.
In addition to EDG 2701, lower division courses must include 6 credit hours with an international or diversity focus.
Professional education courses taken at the community college will transfer as general electives.

Professional Education Core (29 credit hours)
The required courses in the professional education core are as follows:

EDF 3122 Learning and the Developing Child (3)
EDF 3604 Social Foundations of Education (Exit) (3)
EDG 4620 Curriculum and Instruction (3)
EDF 4430 Measurement for Teachers (3)
EEX 4070 Integrating Exceptional Students in the Regular Classroom (2)
EDG 4909 Teaching LEP Students K-12 (3)
EDG 4909 Applied Linguistics (2)
EDE 4940 Internship (10)

Specialization (44 cr. hrs.):
ARE 4313 Art For the Child and You (3)
EDE 4301 Teaching Methods in the Elementary School (3)
EDE 4941 Childhood Education Internship Level I (3)
EDE 4942 Childhood Education Internship Level II (3)
HLP 4722 Health and Physical Education for the Child (6)
LAE 4314 Language Arts in Childhood Education (3)
LAE 4414 Literature in Childhood Education (Exit) (3)
MAE 4310 Teaching Elementary School Mathematics I (3)
MAE 4326 Teaching Elementary School Mathematics II (3)
MUE 4210 Music For The Child (3)
RED 4310 Early Literacy Learning (3)
RED 4511 Literacy in the Intermediate and Middle Grades (3)
SCE 4310 Teaching Elementary School Science (3)
SSE 4313 Teaching Elementary School Social Studies (3)

Students are advised that the Elementary Education specialization will require an enrollment of more than the traditional four semesters of the junior and senior years in order to complete the program specialization courses and the required sequence of internship.

Department of Secondary Education
The following programs are housed in the Department of Secondary Education:
- English Education
- Foreign Language Education
- Mathematics Education
- Science Education
- Social Science Education

The undergraduate programs offered by the department are designed to prepare students to meet Florida teacher certification requirements and to become highly competent secondary teachers. Specialized courses in the teaching of mathematics, science, and social science are also offered for students majoring in elementary, early childhood, and special education.

ENGLISH EDUCATION (BEN):
General Education and Exit Course requirements are listed under Degree Requirements.

Prerequisites (State Mandated Common Prerequisites):
These prerequisites must be met by transfer students as well as USF students.
A grade of “C” is the minimum acceptable grade.
EDF 1005/2005 Introduction to Education
EDG 2701 Teaching Diverse Populations
EME 2040 Introduction to Educational Technology
(Equivalent course or demonstrated competency may be substituted)

SPC X600 Public Speaking
American or British Literature Survey (3)
Advanced Creative Composition beyond Freshman I and II (3)
Contemporary Literature (3)

At least one course taken to meet the natural science requirements in General Education must include a laboratory component.
In addition to EDG 2701, lower division courses must include 6 credit hours with an international or diversity focus.
Professional education courses taken at the community college will transfer as general electives.

Professional Education Core (29 credit hours)
The required courses in the professional education core are as follows:

EDF 3214 Human Development and Learning (3)
EDF 3604 Social Foundations of Education (Exit) (3)
EDG 4620 Curriculum and Instruction (3)
EDF 4430 Measurement for Teachers (3)
EEX 4070 Integrating Exceptional Students in the Regular Classroom (2)
EDG 4909 Teaching LEP Students K-12 (3)
LAE 4936 Senior Seminar in English Education (2)
LAE 4940 Internship: English Education (10)

Program Requirements (33 credit hours)
1. English Specialization:
ENC 3310 Expository Writing (3)
One of the following:
LIT 3103 Great Literature of the World (Exit) (3)
WST 4263 Third World Women Writers (Exit) (3)
Two of the following:
AML 3031 American Literature to 1860 (3)
AML 3032 American Literature 1860-1912 (3)
AML 3051 American Literature 1912-1945 (3)
AML 3604 African-American Literature (Exit) (3)
AML 4111 Nineteenth-Century American Novel (3)
AML 4121 Twentieth-Century American Novel (3)
LIT 4386 British and American Literature by Women (Exit) (3)
One of the following:

- ENL 3015 British Literature to 1616 (3)
- ENL 3230 British Literature 1616-1780 (3)
- ENL 3251 British Literature 1780-1900 (3)
- ENL 3273 British Literature 1900-1945 (3)

One of the following:

- ENL 3331 Early Shakespeare (3)
- ENL 3332 Late Shakespeare (3)

One of the following:

- ENG 4060 History of the English Language (3)
- LIN 3010 Introduction to Linguistics (3)
- LIN 3670 English Grammar and Usage (3)
- LIN 4671 Traditional English Grammar (3)
- LIN 4680 Structure of American English (3)

2. English Education:

LAE 4323 Methods of Teaching English: Middle School (3)
LAE 4464 Adolescent Literature for Middle and Secondary Students (Exit) (3)
LAE 4530 Methods of Teaching English: Pracicum (3)
LAE 4642 Methods of Teaching English: High School (3)
LAE 4530 must be taken concurrently with LAE 4642 (PR: LAE 4464, the fall or spring immediately preceding internship. LAE 4323 should be taken the semester prior to enrolling in LAE 4530. Methods courses are available in Fall and Spring Semesters, only.

FOREIGN LANGUAGE EDUCATION:

General Education and Exit requirements are listed under Degree Requirements. A minimum of 27 credit hours beyond intermediate course requirements must be earned in the foreign language. Programs are available for Spanish (BFS), French (BFF), Italian (BFI), German (BFG) and Russian (BFR).

Prerequisites (State Mandated Common Prerequisites):

These prerequisites must be met by transfer students as well as USF students.

A grade of “C” is the minimum acceptable grade.

EDF 1005/2005 Introduction to Education
EDG 2701 Teaching Diverse Populations
EME 2040 Introduction to Educational Technology

In addition, fifteen semester hours must come from the following areas: courses in elementary and intermediate grammar, composition and advanced conversation; culture and civilization in the target language.

At least one course taken to meet the natural science requirements in General Education must include a laboratory component.

In addition to EDG 2701, lower division courses must include 6 credit hours with an international or diversity focus. Professional education courses taken at the community college will transfer as general electives.

Professional Education Core (29 credit hours)

The required courses in the professional education core are as follows:

- EDF 3214 Human Development and Learning (3)
- EDF 3604 Social Foundations of Education (Exit) (3)
- EDF 4620 Curriculum and Instruction (3)
- EDF 4430 Measurement for Teachers (3)
- EEX 4070 Integrating Exceptional Students in the Regular Classroom (2)
- EDG 4909 Teaching LEP Students K-12 (3)
- FLE 4936 Senior Seminar in Foreign Language Education (2)
- FLE 4940 Internship: Foreign Language Education (10)

Specialization (39 cr. hrs.):

1. Foreign language (27 credit hours)
   - grammar, conversation, composition 9
   - literature 6
   - culture and civilization 6
   - linguistics 3
   - exit requirement language course 3

2. Foreign Language Education

- 12 credit hours in methods of teaching a language at the elementary and secondary levels, including a practicum.
  - Fall Term: FLE 4314 (elementary)
  - Spring Term: FLE 4333 (secondary) and FLE 4370 (practicum)
- Summer Term: EDG 4909 Technology in the Foreign Language Classroom

MATH EDUCATION (BMA):

General Education and Exit Course requirements are listed under Degree Requirements.

Prerequisites (State Mandated Common Prerequisites):

These prerequisites must be met by transfer students as well as USF students.

A grade of “C” is the minimum acceptable grade.

EDF 1005/2005 Introduction to Education
EDG 2701 Teaching Diverse Populations
EME 2040 Introduction to Educational Technology

(Equivalent course or demonstrated competency may be substituted)

MAC 2311* Calculus I (4)
MAC 2312* Calculus II (4)
STA 2023* Elementary Statistics (3)
Computer Programming Language (3)
(Microprocessor-based Fortran, Pascal, C or C++)

*May be part of General Education Requirements

In addition to EDG 2701, lower division courses must include 6 credit hours with an international or diversity focus. Professional education courses taken at the community college will transfer as general electives.

Specialization (26 cr. hrs.):

- MAC 2313 Calculus III (4)
- MAD 3100 Discrete Mathematics (3)
- MAS 3105 Linear Algebra (3)
- MAS 4214 Elementary Number Theory (3)
- MAS 4301 Elementary Abstract Algebra (3)
- MGF 3301 Bridge to Abstract Mathematics (3)
- MTH 4403 Early History of Math (Exit) (3)
- MTG 4212 Geometry (3)

Professional Education Core (29 credit hours)

The required courses in the professional education core are as follows:

- EDF 3214 Human Development and Learning (3)
- EDF 3604 Social Foundations of Education (Exit) (3)
- EDF 4620 Curriculum and Instruction (3)
- EDF 4430 Measurement for Teachers (3)
- EEX 4070 Integrating Exceptional Students in the Regular Classroom (2)
- EDG 4909 Teaching LEP Students K-12 (3)
- MAE 4940 Internship: Mathematics Education (10)
- MAE 4936 Senior Seminar in Mathematics Education (2)

Mathematics Education (14 cr. hrs.):

- MAE 4320 Middle School Mathematics (3)
- MAE 4330 Senior High School Mathematics (3)
- MAE 4551 Reading in Math (2)
- MAE 4852 Technology for Teaching Secondary School Mathematics I (3)
Science Specialization-Physics:
MAC 2281 Calculus I (3)
MAC 2282 Calculus II (3)
MAC 2283 Calculus III (3)
PHY 2020 Conceptual Physics (3)
PHY 3101 Modern Physics (3)
PHY 3221 Mechanics I (3)
PHY 3323C Electricity & Magnetism I (4)
PHY 4031 Great Themes in Physics (Exit) (3)
Electives in Physics (6)

2. Science Education:
As a minimum, satisfactory completion of the following courses:
SCE 4237 Science, Technology, Society (Exit) (4)
SCE 4305 Communication Skills in Science (2)
SCE 4320 Teaching Middle Grade Science (3)
SCE 4330 Teaching Methods in Secondary School Science (3)

A Physics major will need a three credit hour course in computer applications in physics.

Professional Education Core (29 credit hours):
The required courses in the professional education core are as follows:
EDF 3214 Human Development and Learning (3)
EDF 3604 Social Foundations of Education (Exit) (3)
EDG 4620 Curriculum and Instruction (3)
EDF 4430 Measurement for Teachers (3)
EEX 4070 Integrating Exceptional Students in the Regular Classroom (2)
EDG 4909 Teaching LEP Students K-12 (3)
SSE 4940 Internship: Science Education (10)
SSE 4939 Senior Seminar in Science Education (2)

Social Sciences Specialization
AMH 2010 American History I* (3)
AMH 2020 American History II* (3)
GEO 2000 Global Geography (3)
HUM 2211 Studies in Culture: World History I* (3)
HUM 2243 Studies in Culture: World History II* (3)
POS 2112 State and Local Government (3)

Prerequisites (State Mandated Common Prerequisites):
These prerequisites must be met by transfer students as well as USF students.
A grade of "C" is the minimum acceptable grade.
EDF 1005/2005 Introduction to Education
EDG 2701 Teaching Diverse Populations
EME 2040 Introduction to Educational Technology
(Equivalent course or demonstrated competency may be substituted)

Biology Education
BSC 2010* Biology I with lab (4)
BSC 2011* Biology II with lab (4)
BSC 2055* Human Anatomy Physiology (3)
CHM 2045* General Chemistry I with lab (4)
PHY 2053* General Physics I with lab (4)

Chemistry Education
BSC 2010* Biology I with lab (4)
CHM 2045* General Chemistry I with lab (4)
CHM 2048* General Chemistry II with lab (4)
PHY 2053* General Physics I with lab (4)
PHY 2054* General Physics II with lab or BSC 2011* Biology II with lab (4)

Physics Education
BSC 2010* Biology I with lab (4)
CHM 2045* General Chemistry with lab (4)
CHM 2047* General Chemistry II with lab or BSC 2011* Biology II with lab (4)
PHY 2048* General Physics with lab and (4)
PHY 2049* General Physics with lab or (4)
PHY 2053* General Physics with lab and (4)
PHY 2054* General Physics with lab (4)

*May be part of General Education Requirements
In addition to EDG 2701, Lower division courses must include 6 credit hours with an international or diversity focus. Professional education courses taken at the community college will transfer as general electives.

Course Requirements:
1. Science Specialization-Biology:
   - PCB 3063 General Genetics (3)
   - PCB 3023C Cell Biology (4)
   - PCB 3043C Principles of Ecology (3)
   - PCB 3043L Principles of Ecology Lab (1)
   - PVC 4674 Organic Evolution (3)
   - MCB 3030C Introduction to Microbiology (4)
   - BSC 4057 Environmental Issues (Exit) (3)
   - MAC 2281 Calculus I (3)
   - CHM 2046 General Chemistry II w/Lab or (4)
   - PHY 2054 General Physics II w/Lab

2. Science Specialization-Chemistry:
   - CHM 2046 General Chemistry I w/Lab (4)
   - CHM 2210 Organic Chemistry I (3)
   - CHM 2210L Organic Chemistry I Lab (1)
   - CHM 3120C Elementary Analytical Chemistry (4)
   - CHM 3400 Elementary Physical Chemistry I (3)
   - CHM 3610C Intermediate Inorganic Chemistry (4)
   - CHM 4070 Historical Perspectives in Chemistry (Exit) (3)
   - BCH 3023 Biochemistry (3)
   - MAC 2281 Calculus I (3)

Science Specialization-Physics:
MAC 2281 Calculus I (3)
MAC 2282 Calculus II (3)
MAC 2283 Calculus III (3)
PHY 2020 Conceptual Physics (3)
PHY 3101 Modern Physics (3)
PHY 3221 Mechanics I (3)
PHY 3323C Electricity & Magnetism I (4)
PHY 4031 Great Themes in Physics (Exit) (3)
Electives in Physics (6)

2. Science Education:
As a minimum, satisfactory completion of the following courses:
SCE 4237 Science, Technology, Society (Exit) (4)
SCE 4305 Communication Skills in Science (2)
SCE 4320 Teaching Middle Grade Science (3)
SCE 4330 Teaching Methods in Secondary School Science (3)

A Physics major will need a three credit hour course in computer applications in physics.

Professional Education Core (29 credit hours):
The required courses in the professional education core are as follows:
EDF 3214 Human Development and Learning (3)
EDF 3604 Social Foundations of Education (Exit) (3)
EDG 4620 Curriculum and Instruction (3)
EDF 4430 Measurement for Teachers (3)
EEX 4070 Integrating Exceptional Students in the Regular Classroom (2)
EDG 4909 Teaching LEP Students K-12 (3)
SSE 4940 Internship: Science Education (10)
SSE 4939 Senior Seminar in Science Education (2)

Social Sciences Specialization
AMH 2010 American History I* (3)
AMH 2020 American History II* (3)
GEO 2000 Global Geography (3)
HUM 2211 Studies in Culture: World History I* (3)
HUM 2243 Studies in Culture: World History II* (3)
POS 2112 State and Local Government (3)
The required courses in the professional education core are as follows:

**Professional Education Core (29 cr. hrs.)**

- EDF 3214 Human Development and Learning (3)
- EDF 3604 Social Foundations of Education (3)
- EDC 4250 Curriculum and Instruction (3)
- EDF 4430 Measurement for Teachers (3)
- EEX 4070 Integrating Exceptional Students in the Regular Classroom (2)
- EDG 4909 Teaching LEP Students K-12 (3)
- SSE 4333* Teaching Middle Grades Social Science (3)
- SSE 4334 Teaching Secondary Grades Social Science (3)
- SSE 4335 Teaching Social Science Themes (3)
- SSE 4640 Communications Skills in the Social Sciences (2)
- PET 2622 Care and Prevention of Injuries (3)
- PET 3441 Instructional Design & Content: Middle School Science (3)
- PET 3351 Exercise Physiology I (3)
- PET 3310Kinesiology (3)
- PET 3010 Personal/Professional Development Seminar (2)
- PET 4940 Internship: Social Science Education (10)*
- SSE 4936 Senior Seminar in Social Science Education (2)
- SSE 4940 Internship: Social Science Education (10)*

*May be part of General Education Requirements

**Also meets General Education ALAMEA requirement**

**Social Science Education (11 cr. hrs.)**

SSE 4333* Teaching Middle Grades Social Science (3)
SSE 4334 Teaching Secondary Grades Social Science (3)
SSE 4335 Teaching Social Science Themes (3)
SSE 4640 Communications Skills in the Social Sciences (2)

*Must be completed prior to SSE 4334 and SSE 4640.

**Department of Educational Measurement and Research**

The Department of Educational Measurement and Research offers EDF 4430, Measurement for Teachers, which is required of all students enrolled in teacher education programs. The objectives of this course include designing and applying classroom tests and other assessment devices, including alternative assessments, monitoring student progress and communicating student achievement. Emphasis is placed on assessment and instruction as integrated activities.

**School of Physical Education**

The School of Physical Education, Wellness, and Sports Studies teaches a variety of Elective Physical Education courses and conducts Professional Physical Education Teacher Preparation K-8 and 6-12 Programs and a Wellness Leadership Program.

**Elective Physical Education Program**

Elective Physical Education offerings in the College of Education are designed to provide opportunities for all students in the university to acquire knowledge and movement skills related to an active healthy lifestyle. Laboratory experiences in over twenty-five different exercise and sports activities allow students to select and develop proficiency appropriate for leisure pursuit and personal development. Special competency courses provide for in-depth study in such areas as personal wellness, current issues in sports, and first aid.

**Physical Education and Wellness Leadership**

Students must choose one of the following programs: a) Physical Education Grades K-8 (Florida Teacher Certification); b) Physical Education Grades 6-12 (Florida Teacher Certification); or c) Wellness Leadership (Non-certification).

- **Requirements for the B.S. Degree (BPE/BPS/BPW)**

  The two-year programs are offered beginning in the junior year and includes mandatory attendance during the summer session between the junior and senior years. Students can only enter during Fall Semester of each year.

  In addition to applying to the University, all students must apply directly to the Department. Requests for admission to the Program should be directed to:

  Director
  School of Physical Education, Wellness, & Sport Studies
  College of Education
  University of South Florida
  4202 E. Fowler, PED 214
  Tampa, Florida 33620-8600

**Prerequisites (State Mandated Common Prerequisites):**

These prerequisites must be met by transfer students as well as USF students.

**For K-8 and 6-12 Physical Education Tracks:**

A grade of "C" is the minimum acceptable grade.

- EDF 1005/2005 Introduction to Education (3)
- EDG 2701 Teaching Diverse Populations (3)
- EME 2040 Introduction to Educational Technology (3)

**For Wellness Leadership Track:**

- Highly Recommended
- BSC 3092 Human Anatomy and Physiology (3)
- HSC 2400 First Aid (3)
- PET 2622 Care and Prevention of Injuries (3)

**Course Requirements:**

**Core Courses for All Tracks:**

- PET 3010 Personal/Professional Development Seminar (3)
- PET 3310 Kinesiology (3)
- PET 3351 Exercise Physiology I (3)

**Additional Required Courses for K-8 Track:**

- PET 3441 Instructional Design & Content: Middle School Physical Education (3)
ADDITIONAL REQUIRED COURSES FOR 6-12 TRACK:

<table>
<thead>
<tr>
<th>Code</th>
<th>Course</th>
</tr>
</thead>
<tbody>
<tr>
<td>EDF 3604</td>
<td>Social Foundations of Education</td>
</tr>
<tr>
<td>EDF 4430</td>
<td>Measurement for Teachers</td>
</tr>
<tr>
<td>EDF 4131</td>
<td>Learning and the Developing Adolescent</td>
</tr>
<tr>
<td>PET 3031</td>
<td>Motor Development &amp; Assessment</td>
</tr>
<tr>
<td>PET 3421</td>
<td>Curriculum and Instruction in Physical Education</td>
</tr>
<tr>
<td>PET 3422</td>
<td>Instructional Design &amp; Content: Movement Experiences</td>
</tr>
<tr>
<td>PET 3441</td>
<td>Instructional Design &amp; Content: Middle School Physical Education</td>
</tr>
<tr>
<td>PET 3640</td>
<td>Adapted Physical Education</td>
</tr>
<tr>
<td>PET 3943</td>
<td>Physical Education Internship: Middle School</td>
</tr>
<tr>
<td>PET 4304</td>
<td>Principles &amp; Issues in Coaching</td>
</tr>
<tr>
<td>PET 4401</td>
<td>Organization &amp; Administration of Physical Education Programs</td>
</tr>
<tr>
<td>PET 4442</td>
<td>Instructional Design &amp; Content: Physical Education Secondary</td>
</tr>
<tr>
<td>PET 4443</td>
<td>Instruction Design &amp; Content: Physical Education Secondary II</td>
</tr>
<tr>
<td>PET 4944</td>
<td>Physical Education Pre-Internship: Secondary</td>
</tr>
<tr>
<td>PET 4947</td>
<td>Internship in Teaching Physical Education: Secondary</td>
</tr>
</tbody>
</table>

ADDITIONAL COURSES REQUIRED FOR WELLNESS LEADERSHIP TRACK (PTS)

<table>
<thead>
<tr>
<th>Code</th>
<th>Course</th>
</tr>
</thead>
<tbody>
<tr>
<td>ADE 4384</td>
<td>Working with the Adult Learner</td>
</tr>
<tr>
<td>GEY 3601</td>
<td>Behavior Change in Later Life</td>
</tr>
<tr>
<td>HLP 4941</td>
<td>Wellness Internship</td>
</tr>
<tr>
<td>HUN 3201</td>
<td>Nutrition</td>
</tr>
<tr>
<td>PEM 2131</td>
<td>Weight Training</td>
</tr>
<tr>
<td>PEP 3940</td>
<td>Practicum in Health Promotion/Wellness</td>
</tr>
<tr>
<td>PEP3951</td>
<td>Communications Skill for Wellness Leaders</td>
</tr>
<tr>
<td>PEQ 3170</td>
<td>Aquatic Exercise</td>
</tr>
<tr>
<td>PET 3080</td>
<td>Survey of Wellness Programs</td>
</tr>
<tr>
<td>PET 3931</td>
<td>Teaching Aerobic Dance/Exercise</td>
</tr>
<tr>
<td>PET 4404</td>
<td>Organization &amp; Administration of Wellness Programs</td>
</tr>
<tr>
<td>PET 4353</td>
<td>Exercise Physiology II</td>
</tr>
<tr>
<td>PET 4384</td>
<td>Health Fitness Appraisal &amp; Exercise Prescription</td>
</tr>
</tbody>
</table>

Department of Physical and Social Foundations of Education

The Department of Psychological and Social Foundations of Education provides courses for all students majoring in the undergraduate program. These courses contribute to the students’ understanding of the general education enterprise and are considered foundational to later professional specialization.

Prerequisites Courses

<table>
<thead>
<tr>
<th>Code</th>
<th>Course</th>
</tr>
</thead>
<tbody>
<tr>
<td>EDF 2005</td>
<td>Introduction to Education and Field Experience</td>
</tr>
<tr>
<td>EDG 2701</td>
<td>Teaching Diverse Populations and Field Experience</td>
</tr>
</tbody>
</table>

Professional Core Courses

<table>
<thead>
<tr>
<th>Code</th>
<th>Course</th>
</tr>
</thead>
<tbody>
<tr>
<td>EDF 3122</td>
<td>Learning and the Developing Child</td>
</tr>
</tbody>
</table>

Department of Special Education

The Department of Special Education prepares teachers to work with children who have emotional and behavioral disabilities, mental retardation, and specific learning disabilities. The undergraduate program is a state-approved program that leads to certification in one or more of the three areas.

Students are required to meet University and College of Education entrance requirements prior to enrollment in the Department. Upon admission, students affiliate with the campus on which they wish to take their program of studies. Students may not register for courses on other campuses without permission. On the Tampa Campus, students are assigned to teams. All courses are taken with the assigned team. Since students may pursue a part-time program (9 hours or less a semester), this requires that students be available to participate in field experiences and concurrent classes during regular school hours. Students are responsible for providing transportation to their experience sites.

Prerequisites (State Mandated Common Prerequisites):

<table>
<thead>
<tr>
<th>Code</th>
<th>Course</th>
</tr>
</thead>
<tbody>
<tr>
<td>ADE 3834</td>
<td>Working with the Adult Learner</td>
</tr>
<tr>
<td>GEY 3601</td>
<td>Behavior Change in Later Life</td>
</tr>
<tr>
<td>HLP 4941</td>
<td>Wellness Internship</td>
</tr>
<tr>
<td>HUN 3201</td>
<td>Nutrition</td>
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<tr>
<td>PEM 2131</td>
<td>Weight Training</td>
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<tr>
<td>PEP 3940</td>
<td>Practicum in Health Promotion/Wellness</td>
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<tr>
<td>PEP3951</td>
<td>Communications Skill for Wellness Leaders</td>
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<tr>
<td>PEQ 3170</td>
<td>Aquatic Exercise</td>
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<tr>
<td>PET 3080</td>
<td>Survey of Wellness Programs</td>
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<tr>
<td>PET 3931</td>
<td>Teaching Aerobic Dance/Exercise</td>
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<tr>
<td>PET 4404</td>
<td>Organization &amp; Administration of Wellness Programs</td>
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</table>

Prerequisites (State Mandated Common Prerequisites):

These prerequisites must be met by transfer students as well as USF students.

A grade of "C" is the minimum acceptable grade.

EDF 1005/2005 Introduction to Education
EDG 2701 Teaching Diverse Populations
EME 2040 Introduction to Educational Technology
( Equivalent course or demonstrated competency may be substituted)
In addition to these three education courses, students must also take:
- a minimum of 9 hours in communications, including a speech course;
- a minimum of 9 hours in mathematics, excluding MAT 1033 and a computer course;
- a minimum of 9 hours in the natural and/or physical sciences, with a minimum of one associated lab;
- a minimum of 9 hours in the humanities; and
- a minimum of 9 hours in the social sciences, including a psychology or human growth and development course.
These courses may meet General Education Requirements as well as fulfill Prerequisites.
In addition to EDG 2701, lower division courses must include 6 credit hours with an international or diversity focus. Professional education courses taken at the community college will transfer as general electives.

Professional Education Core (29 credit hours)
The required courses in the professional education core are as follows:
EDF 3214 Human Development and Learning (3)
EDF 3604 Social Foundations of Education (Exit) (3)
EDG 4620 Curriculum and Instruction (3)
EDF 4430 Measurement for Teachers (3)
EEX 4070 Integrating Exceptional Students in the Regular Classroom (2)
EDG 4909 Teaching LEP Students K-12 (3)
EDG 4841 Introduction to Specific Learning Disabilities (3)
EEX 4940 Internship: Exceptional Student Education (10)
EEX 4936 Senior Seminar in Exceptional Student Education (2)

Specialization Areas
Emotional and Behavioral Disabilities (EH Certification) Students seeking the B. S. degree with certification in EH are required to take the following courses:
EED 4011 Introduction to Behavior Disorders (3)
EED 4941 Undergraduate Supervised Practicum in Behavior Disorders (1-6)
EEX 4011 Foundations of Special Education (3)
EEX 4221 Educational Assessment of Exceptional Students (3)
EEX 4243 Education of the Exceptional Adolescent and Adult (3)
EEX 4604 Behavior Management for Special Needs and at Risk Students (3)
EEX 4742 Narrative Perspectives on Exceptionality: Cultural and Ethical Issues (3)
EEX 4846 Clinical Teaching in Special Education (3)
LAE 4314 Language Arts in Childhood Education (3)
MAE 4310 Teaching Elementary School Mathematics I (3)
RED 4310 Early Literacy Learning (3)
RED 4511 Literacy in the Intermediate and Middle Grades (3)

Mental Retardation (MR Certification) Students seeking the B. S. degree with certification in MR are required to take the following courses:
EEX 4011 Foundations of Special Education (3)
EEX 4221 Educational Assessment of Exceptional Students (3)

EEX 4243 Education of the Exceptional Adolescent and Adult (3)
EEX 4604 Behavior Management for Special Needs and at Risk Students (3)
EEX 4742 Narrative Perspectives on Exceptionality: Cultural and Ethical Issues (3)
EEX 4846 Clinical Teaching in Special Education (3)
EMR 4011 Introduction to Mental Retardation (3)
EMR 4941 Undergraduate Supervised Practicum in Mental Retardation (1-6)
LAE 4314 Language Arts in Childhood Education (3)
MAE 4310 Teaching Elementary School Mathematics I (3)
RED 4310 Early Literacy Learning (3)
RED 4511 Literacy in the Intermediate and Middle Grades (3)

Specific Learning Disabilities (LD Certification) Students seeking the B. S. degree with certification in LD are required to take the following courses:
EED 4011 Foundations of Special Education (3)
EED 4221 Educational Assessment of Exceptional Students (3)
EEX 4243 Education of the Exceptional Adolescent and Adult (3)
EEX 4604 Behavior Management for Special Needs and at Risk Students (3)
EEX 4742 Narrative Perspectives on Exceptionality: Cultural and Ethical Issues (3)
EEX 4846 Clinical Teaching in Special Education (3)
ELD 4011 Introduction to Specific Learning Disabilities (3)
ELD 4941 Undergraduate Supervised Practicum in SLD (1-6)
LAE 4314 Language Arts in Childhood Education (3)
MAE 4310 Teaching Elementary School Mathematics I (3)
RED 4310 Early Literacy Learning (3)
RED 4511 Literacy in the Intermediate and Middle Grades (3)

Students wishing to obtain dual certification may do so with permission from the department.

Student Organizations and Activities
College of Education Student Council The College of Education Student Council represents the interests of education majors in regard to policies and needs of the college. The Council leadership team consists of five officers (President, Vice-President, Secretary, Treasurer, and Historian) and seven Student Government Senators. Elections are held annually; all pre-education and education majors are eligible to vote for all officers. C.E.S.C. activities enhance members' professional growth, provide opportunities for professional and community service, and serve as a forum for socialization. Any student majoring in education with a minimum GPA of 2.0, is eligible to participate in C.E.S.C.

Childhood Education Organization The Association for Childhood Education International is a non-profit professional organization concerned with the education and well-being of children birth to early adolescence. Members are located throughout the United States. The USF chapter works directly with children through observation, projects, and programs. In addition, it provides opportunities for students to attend study conferences throughout the
National Education Association Student Program (NEASP)
The National Education Association student program is designed to provide professional growth opportunities, leadership training, and membership benefits that are available to other members of the National Education Association, including $1 million liability insurance coverage while engaged in student teaching internship. Membership is open to all students.

Kappa Delta Pi
Kappa Delta Pi is an international co-educational honor society in Education. The society was founded to recognize and encourage excellence in scholarship, high personal standards, improvement in teacher preparation, and distinction in achievement.

Association of Physical Education College Students (APECS)
The Physical Education and Wellness Association (PEWA) is open to all students enrolled in the Physical Education and Wellness Programs. Social and professional meetings are conducted throughout the year. Professional service to the community is also provided by the association.

Mathematics Education Club
The role of this organization shall be to provide an informative and supportive environment for all members, encourage scholarship, and provide a helpful atmosphere for students progressing through the Mathematics Education program. Membership shall be available to any student in good standing who expresses interest in the Mathematics Education program at USF.

Minority Organization of Students in Education (MOSE)
The Minority Organization of Students in Education is organized to provide students with experiences that will facilitate the educational and professional growth of its members. This is achieved by enriching the students’ experiences, informing them of various opportunities and involving them in activities. Guest speakers are invited to meetings to discuss topics which are of interest to the members. Resource people are used to inform students of employment and graduate school opportunities. Members of MOSE sponsor and participate in community service programs.

Science Education Association (SEA)
The Science Education Association provides a supportive environment for students majoring in science education, although membership is open to anyone interested in science. SEA plans field trips, guest speakers, and the compiling of a classroom science activities file for education majors.
### EDUCATION COURSES

#### Adult Education

**ADE 4384 WORKING WITH THE ADULT LEARNER:**
An investigation of the needs of the adult learner. Identification of principles of adult learning: physiological, psychological and social characteristics of adult learners, and corresponding implications are explored. *(3)*

#### Business and Office Education

**BTE 4401 SPECIAL TEACHING METHODS:**
BUSINESS EDUCATION *(4)*
- PR: Successful completion of BE competencies, or CI. Methods, techniques, and materials for skill development.

**BTE 4410 METHODS OF TEACHING: BUSINESS EDUCATION** *(4)*
- PR: Successful completion of BE competencies, or CI. Methods, techniques and materials for instruction.

**BTE 4909 DIRECTED STUDY: BUSINESS EDUCATION** *(1-3)*
- PR: Senior standing. To extend competency in the teaching field.

**BTE 4936 SENIOR SEMINAR IN BUSINESS AND OFFICE EDUCATION** *(2)*
- PR: Senior standing; CR: BTE 4940. Synthesis of teacher candidate’s courses in their complete college program.

**BTE 4940 INTERNSHIP: BUSINESS EDUCATION** *(1-12)*
- CR: BTE 4936. One full semester of internship in a public or private school. In special programs where the intern experience is distributed over two or more semesters, students will be registered for credit which accumulates from 9 to 12 semester hours. (S/U only.)

**BTE 4948 FIELD BASED SEMINAR IN BUSINESS EDUCATION** *(3)*
- Supervised field experience and orientation to the broad field of business education. Specifically designed to be preparatory for the internship. (S/U only.)

**BTE 5171 CURRICULUM CONSTRUCTION: BUSINESS EDUCATION** *(3)*
- Curriculum scope, the process of planning and organizing instructional programs with emphasis in task analysis and process evaluation.

**EDG 4909 DIRECTED STUDIES**
- PR: Senior standing. To extend competency in the teaching field. Offered only as a scheduled class.

**DEC 4161 PROGRAM MANAGEMENT OF DISTRIBUTIVE AND MARKETING EDUCATION** *(3)*
- The study of the purposes, processes, organization, planning, directing, coordinating and evaluation of Distributive and Marketing Education Cooperative Programs.

#### Computers in Education

**EME 2040 INTRODUCTION TO EDUCATIONAL TECHNOLOGY** *(3)*
- Introduction to computer technology and its role in the teaching and learning processes. Topics include: educational software, ethical and social issues, hardware, interactive multimedia, models for integrating technology into instruction, productivity tools, and telecommunications. A prerequisite for admission into the College of Education.

**EME 5403 MICROCOMPUTERS IN EDUCATION** *(3)*
- A survey course designed to introduce practicing teachers to microcomputer technology and its function in the classroom to augment the teaching and learning process. Objectives include the use and evaluation of educational software, classroom use of computers, instructional computing research, generic applications software (word processors, database managers, etc.), programming, disk operating systems, and microcomputer hardware.

#### Curriculum and Instruction

**EDG 4620 CURRICULUM AND INSTRUCTION** *(3)*
- An introduction to the field of curriculum and instruction. Emphasis is placed on principles of curriculum development and use of instructional strategies. Students will develop, implement, and evaluate a variety of lesson plans.

**Early Childhood Education**

**EEC 2000 INTRODUCTION TO EARLY CHILDHOOD EDUCATION** *(3)*
- An overview of early childhood education with emphasis on its historical development, current theories, and practices.

**EEC 4008 LITERATURE IN EARLY CHILDHOOD EDUCATION - 6A - XLW** *(3)*
- PR: Junior Standing. Emphasis is placed on developing knowledge of literature for younger children (0 - 8 years) and methodologies and strategies for utilizing literature to teach literacy in content areas of the curriculum.

**EEC 4203 PROGRAMS FOR YOUNG CHILDREN** *(3)*
- PR: Admission to Early Childhood Program. Develops students’ understanding of programs in early childhood, philosophical orientations that guide program development, and components of high quality programs.

**EEC 4211 INTEGRATED CURRICULUM: SCIENCE AND MATHEMATICS** *(3)*
- PR: Admission to Early Childhood Program. Provides students with knowledge of beginning sequential science and mathematical concepts for the appropriate stages of cognitive development of young children. Emphasis will be placed on how science and mathematics are integrated throughout the curriculum and become valued functional tools.

**EEC 4212 INTEGRATED CURRICULUM: SOCIAL SCIENCES/ HUMANITIES & ARTS** *(3)*
- PR: Admission to Early Childhood Program. Emphasis is placed on understanding concepts associated with the major content areas within the social sciences. Planning, implementing, and evaluating appropriate learning experiences for children age 3 through grade 3 will link understanding to practice.

**EEC 4300 COGNITIVE EXPERIENCES FOR YOUNG CHILDREN** *(3)*
- PR: Admission to Early Childhood Program. Emphasizes theoretical and practical aspects of cognitive development for children ages 3 through 6 with focus on planning integrated experiences and content in science, mathematics, and social sciences.

**EEC 4303 CREATIVE AND AFFECTIVE EXPERIENCES FOR YOUNG CHILDREN** *(3)*
- PR: Admission to Early Childhood Program. Develops students’ understandings of young children's creative expression through art, music, movement, play and drama. Emphasizes how to plan, implement, and evaluate appropriate learning experiences as well as selection of appropriate instructional materials.

**EEC 4408 CHILD, FAMILY & TEACHER RELATIONS** *(3)*
- PR: Admission to Early Childhood Program. Focused on developing an understanding of traditional and non-traditional families, structural and life style variations and parenting in diverse cultures and at-risk families. Implications from this understanding will guide development of a parent involvement plan that includes effective ways to communicate with parents, conference with parents, and plan parent meetings and home visits.

**EEC 4706 LANGUAGE AND EMERGING LITERACY** *(3)*
- PR: Admission to Early Childhood Program. Provides knowledge of language development and emerging literacy for typical and atypical development in children from birth to third grade, including ESOL children.

**EEC 4905 INDEPENDENT STUDY: EARLY CHILDHOOD EDUCATION** *(1-4)*
- PR: CI. Specialized independent study determined by the student's needs and interests. May be repeated when subjects vary. (S/U only.)

**EEC 4909 DIRECTED STUDY: EARLY CHILDHOOD EDUCATION** *(1-3)*
- PR: Senior standing. To extend competency in the teaching field.

**EEC 4936 SENIOR SEMINAR** *(2)*
- CR: EEC 4940 Synthesis of teacher candidate’s courses in complete college program.

**EEC 4940 INTERNSHIP: EARLY CHILDHOOD** *(10)*
- CR: EEC 4936. Teacher candidate is required to demonstrate professional competencies during one semester of
full-day internship in a public or private elementary school. (S/U only.)

EEC 4941 FIELD EXPERIENCE I
PR: Admission to Early Childhood Program. Field placement with three and four year olds where teacher candidates have opportunities to apply knowledge and skills in authentic situations and become objective observers of young children's development. Weekly seminars are conducted in conjunction with the field experience which provide teacher candidates an opportunity for reflection on their understandings.

EEC 4942 FIELD EXPERIENCE II
PR: Admission to Early Childhood Program. Field placement in kindergarten or primary grade where teacher candidates have opportunities to apply knowledge and skills in authentic situations. Focus on developing deeper understanding of children's development and implications of development for program planning for both typical and atypical children.

EEC 4943 FIELD EXPERIENCE III
PR: Admission to Early Childhood Program. Field placement in kindergarten or primary grade where teacher candidates have opportunities to apply knowledge and skills in authentic situations. Focus on developing deeper understanding of growth and development and relationship to curriculum planning with an emphasis on self-evaluation of knowledge, skills, and dispositions essential for teaching.

Education -- General

EDG 4909 DIRECTED STUDIES
PR: Senior standing. To extend competency in teaching field. Offered only as a scheduled class.

Elementary Education

ARE 4313 ART FOR THE CHILD AND YOU
See College of Fine Arts

EDE 4301 TEACHING METHODS IN THE ELEMENTARY SCHOOL
PR: EDE 4941 and EDG 4620. Techniques and strategies appropriate to instruction of children in educational settings.

EDE 4905 INDEPENDENT STUDY: ELEMENTARY EDUCATION
PR: CI. Specialized independent study determined by the student's needs and interests. May be repeated when subjects vary. (S/U only.)

EDE 4909 DIRECTED STUDY: ELEMENTARY EDUCATION
PR: Senior standing. To extend competency in teaching field.

EDE 4940 INTERNSHIP: ELEMENTARY EDUCATION
PR: EDE 4941 and EDE 4942. Teacher candidate is required to demonstrate professional competencies during one semester of full day internship in a public or private elementary school and attend a weekly seminar. (S/U only.)

EDE 4941 CHILDHOOD EDUCATION INTERNSHIP LEVEL I
PR: Admission to Elementary Program. CR: RED 4310. EDG 4620 Elementary Section. Students spend six hours per week in a supervised in-school experience and attend a weekly seminar. Concurrent enrollment in EDG 4620 - Elementary section. (S/U only.)

EDE 4942 CHILDHOOD EDUCATION INTERNSHIP LEVEL II
PR: EDE 4941, RED 4310, EDG 4620, EDF 3122, LAE 4314, EDE 4301, MAE 4310, MAE 4326, SCE 4310, LAE 4414, SSE 4313. Students spend 12 hours per week in a supervised internship experience in classroom settings and attend a weekly seminar. (S/U only.)

HLP 4722 HEALTH AND PHYSICAL EDUCATION FOR THE CHILD
See Physical Education

LAE 4314 LANGUAGE ARTS IN CHILDHOOD EDUCATION
PR: Admission to Elementary Program. Implementing a coordinated and integrated language arts curriculum and guiding the developmental language experiences of children in elementary school. Explores the content, organization, and instruction of oral and written expression in childhood education.

LAE 4414 LITERATURE IN CHILDHOOD EDUCATION - 6A - XLW
PR: Junior Standing. The selection, evaluation and use of fiction, nonfiction and poetry for instructional, informational, and recreational purposes in Childhood Education.

MAE 4310 TEACHING ELEMENTARY SCHOOL MATHEMATICS I
See Mathematics Education

MAE 4326 TEACHING ELEMENTARY SCHOOL MATHEMATICS II
See Mathematics Education

MU 4218 MUSIC FOR THE CHILD
See College of Fine Arts

RED 4310 EARLY LITERACY LEARNING
PR: Admission to Elementary Program. Prepares preservice teachers to understand the foundations of literacy and the learning principles and instructional strategies necessary to provide literacy instruction to emergent, novice, and transitional readers and writers.

RED 4511 LITERACY IN THE INTERMEDIATE AND MIDDLE GRADES
PR: RED 4310. Prepares preservice teachers to facilitate literacy for students who are beyond the primary grades. Students will develop an understanding of instructional strategies and materials appropriate for remedial, multicultural, and mainstream students, ways to promote literacy development across the curriculum, and theories of reading disabilities.

SCE 4310 TEACHING ELEMENTARY SCHOOL SCIENCE
See Science Education

SSE 4313 TEACHING ELEMENTARY SCHOOL SOCIAL STUDIES
See Social Science Education

English Education

LAE 4323 METHODS OF TEACHING ENGLISH: MIDDLE SCHOOL
Whole language methods of integrating reading, writing, speaking, listening, viewing, and critical thinking activities into a literature-based program for middle school students. Must be taken one or two semesters prior to internship. Recommended to be taken with LAE 4464.

LAE 4464 ADOLESCENT LITERATURE FOR MIDDLE AND SECONDARY STUDENTS - 6A - XLW
PR: English Education majors or CI. A study of the types of literature read by adolescents with an emphasis upon the criteria for the choice of good books and knowledge of available books and teaching materials. Recommended to be taken with LAE 4323 two semesters prior to internship.

LAE 4465 METHODS OF TEACHING ENGLISH: PRACTICUM
PR: Senior standing or enrollment in Plan II Master's Program. Required concurrently with LAE 4464. Taken one semester (spring or fall) prior to internship.

LAE 4464 METHODS OF TEACHING ENGLISH: HIGH SCHOOL
PR: LAE 4464. Whole language methods of integrating reading, writing, speaking, listening, viewing, and critical thinking activities into a literature-based program for high school students. Must be taken one semester prior to internship with LAE 4530.

LAE 4936 SENIOR SEMINAR IN ENGLISH EDUCATION
PR: Senior standing. Synthesis of teacher candidate’s courses in complete college program. Required concurrently with internship.

LAE 4940 INTERNSHIP: ENGLISH EDUCATION
One full semester of internship in a public or private school. Intern takes Senior Seminar in English Education concurrently. In special programs where the intern experience is distributed over two or more semesters, student will be registered for credit which accumulates from 9 to 12 semester hours. (S/U only.)

LAE 5932 SELECTED TOPICS IN THE TEACHING OF ENGLISH
PR: Certification in English and/or Mass Communications and approval of graduate advisor. Investigation of topics which are of special interest to the student and are related to the teaching of English in the secondary school. Topics
will be selected by the student in accordance with his particular goals and will be approved by the student’s graduate advisor.

**Foreign Language Education**

FLE 4314 FOREIGN LANGUAGE TEACHING IN THE ELEMENTARY SCHOOL (3)
PR: EDG 4520 or concurrent registration, and fluency in target language and in English. Methods of planning and teaching foreign languages in the elementary school. The emphasis is on teaching communicatively and on integrating culture in the K-6 classroom.

FLE 4315 TEACHING STUDENTS WITH LEP K-12 (3)
This course is designed to prepare preprofessional (preservice) teachers to provide linguistically and culturally appropriate instruction, assessment, and learning opportunities for students with limited English proficiency in grades K-12.

FLE 4333 FOREIGN LANGUAGE TEACHING IN THE SECONDARY SCHOOL (3)
PR: FLE 4314, and fluency in the target language and in English. Methods of teaching foreign languages within a communicative framework. Includes examination and practice of current instructional techniques in listening, speaking, reading and writing skills, testing, error correction, and computer assisted language instruction. The emphasis is on teaching foreign languages and teaching for cultural understanding at the secondary level 7-12.

FLE 4370 PRACTICUM IN FOREIGN LANGUAGE TEACHING IN THE SECONDARY SCHOOL (3)
PR: Senior standing or enrollment in Plan II Master’s Program (or CC). Required concurrently with FLE 4333. Fluency in the target language and in English. Preinternship field experience in a K-12 environment. Will include observation and practice in a K-12 classroom as well as class meetings.

FLE 4936 SÉNIOR SEMINAR IN FOREIGN LANGUAGE EDUCATION (2)
PR: Senior standing. Synthesis of teacher candidate’s courses in complete college program. Required concurrently with internship.

FLE 4940 INTERNSHIP: FOREIGN LANGUAGE EDUCATION (1-12)
One full semester of internship in a public or private school. Intern takes Senior Seminar in Education concurrently. (S/U only.)

**Industrial-Technical Education**

EIA 3192 TECHNOLOGY EDUCATION AND SOCIETY (4)
Introduction to programs, facilities and opportunities in teaching technology education. Includes historical, current and futuristic implications of technology in society.

EIA 4360 SPECIAL TEACHING METHODS: TECHNOLOGY EDUCATION (3)
Equips Technology Education instructors with professional competencies for classroom and laboratory settings. Includes the selection of appropriate methods, planning, and delivery of instruction, along with supervision of students in laboratory areas.

EIV 4210 PROGRAM MANAGEMENT: INDUSTRIAL-TECHNICAL EDUCATION (4)
Planning, organizing, motivating and controlling of the learning environment in Industrial-Technical Education Classroom and Laboratories. Program standards for OSHA, program review, record keeping, and budgeting will be examined.

EIV 4314 METHODS OF TEACHING: DIVERSIFIED COOPERATIVE TRAINING (3)
Methods, techniques, and materials for instruction. This course specializes in Diversified Cooperative Training.

EIV 4360 SPECIAL TEACHING METHODS: INDUSTRIAL-TECHNICAL EDUCATION (4)
PR: EIV 4365 or CI. Instructional techniques in industrial-technical education. Vocational Industrial Clubs of America activities may be included.

EIV 5315 PROGRAM MANAGEMENT: DIVERSIFIED COOPERATIVE TRAINING (3)
Organization, coordination, and budgeting of adult, cooperative, and special programs.

EVT 4065 HISTORY AND PRINCIPLES OF VOCATIONAL EDUCATION (4)
An overview of current policies and principles in vocational education including their historical, sociological, and philosophical bases. Open to majors and non-majors.

EVT 4084C PROFESSIONAL DEVELOPMENT IN INDUSTRIAL-TECHNICAL EDUCATION (1-3)
Designed for the ITE teacher in forming plans of professional development. Competencies include the development of a personal education philosophy; attributes in creating harmonious school community relationships; and desirable staff and teacher associations.

EVT 4165 CURRICULUM CONSTRUCTION: INDUSTRIAL-TECHNICAL EDUCATION (4)
Design, development, implementation and evaluation of effective curricular materials in industrial, technical and health related occupations; includes individualized and self-paced materials. Open to majors and non-majors.

EVT 4263 ORGANIZATION AND ADMINISTRATION OF STUDENT VOCATIONAL ORGANIZATIONS (1-4)
Includes the organization and administration of the local student vocational organization in industrial, health occupations, business and distributive education.

EVT 4565 BASIC TEACHING METHODS IN VOCATIONAL EDUCATION (4)
Examines the role of the vocational instructor in the teaching learning process; looks at factors that promote and inhibit learning. Reviews a wide variety of instructional approaches, techniques and methods; includes selection of techniques for situations.

EVT 4567 ASSESSING STUDENT SKILL IN INDUSTRIAL TECHNICAL EDUCATION (4)
Techniques for assessing student’s mastery of skills in industrial/technical education. Focuses on specific competencies including developing and administering performance tests, monitoring student process, and others. Open to majors and non-majors.

EVT 4562 VOCATIONAL EDUCATION FOR SPECIAL NEEDS STUDENTS (4)
Focuses on modifying the vocational education curriculum, laboratory, shop, student outcomes, learning activities, tests, media, etc. to accommodate the unique learning needs of minority, handicapped, disadvantaged, non-traditional and other special needs students.

EVT 4561 EQUITY IN SCHOOLS AND THE WORKPLACE - 6A -XMW (3)
Issues related to gender equity in schools and the workplace. Includes legal, ethical, psychological, sociological, and economic factors; males and females in traditional and non-traditional occupations.

EVT 4905 INDEPENDENT STUDY: INDUSTRIAL-TECHNICAL EDUCATION (1-4)
PR: CI. Specialized independent study determined by the student’s needs and interests. May be repeated when subjects vary. (S/U only.)

EVT 4909 DIRECTED STUDY: INDUSTRIAL-TECHNICAL EDUCATION (1-3)
PR: Senior standing. To extend competency in teaching field. Offered only as a scheduled class.

EVT 4936 SENIOR SEMINAR IN INDUSTRIAL-TECHNICAL EDUCATION (2)
PR: Senior standing; CR: EVT 4940. Synthesis of teacher candidate’s courses in complete college program.

EVT 4940 INTERNSHIP: INDUSTRIAL-TECHNICAL EDUCATION (1-12)
CR; EVT 4936. One full semester of internship in a public or private school. In special programs where the intern experience is distributed over two or more semesters, students will be registered for credit which accumulates from 9-12 semester hours. (S/U only.)
Measurement and Research

EDF 4430 MEASUREMENT FOR TEACHERS, PROCESSES (3)
PR: Upper level standing. Concepts, processes, and skills related to classroom assessment of students; designing, developing, and applying classroom tests, evaluating instruction and student progress, and communicating student achievement. Includes performance assessment techniques and computer applications for measuring and assessing student achievement.

Physical Education -- Elective

HLP 2081 PERSONAL WELLNESS: A LIFETIME COMMITMENT (3)
An examination of the bases for adopting a positive health lifestyle with a major emphasis on diet, weight management, physical fitness, stress management, and substance abuse management.

PEN 1121 TENNIS (2)
Introductory experience in the sport of tennis. Basic skills, playing strategies, lecture, demonstration, and participation. (S/U only.)

PEN 1346 BADMINTON (2)
Progressive experiences in badminton, fundamental skills, strategy, information and participation. (S/U only.)

PEN 1122 GOLF II (2)
Continuation of PEN 1121. Emphasis on course play and refinement of strokes. (S/U only.)

PEN 2321 VOLLEYBALL (2)
Review and refinement of fundamental skills, presentation and practice of the various offensive strategies. (S/U only.)

PEN 2342 TENNIS II (2)
Continuation of PEN 1314L. Refinement of basic skills, supplementary strokes, greater emphasis on tactics and playing strategies. (S/U only.)

PEN 2441 RACKETBALL (2)
Development and refinement of the skills and strategies of Racketball with opportunity for competition and tournament play. (S/U only.)

PEN 2621 BASKETBALL (2)
Review and refinement of fundamental skills, presentation and practice of the various offensive and defensive strategies. (S/U only.)

PEM 2116 STRENGTH AND AEROBIC DEVELOPMENT (2)
Strength development activities combined with aerobic training for individual improvement. (S/U only.)

PEM 2133 WEIGHT TRAINING (2)
Knowledge and techniques necessary for increasing muscle function. Assessment of status and development of a personal program. (S/U only.)

PEM 2141 JOGGING (2)
Introduction to the knowledge and techniques necessary for increasing cardiorespiratory efficiency. Assessment of status and development of a personal program. (S/U only.)

PEM 2441 KARATE (2)
Introductory experiences in the sport of Karate. Fundamental skills, strategy, information, and participation. (S/U only.)

PEM 2930 SELECTED TOPICS (1-2)
Activities offered are selected to reflect student need and faculty interest. May be repeated up to 6 hours. (S/U only.)

PEN 1121 SWIMMING I (2)
Development and refinement of the essential skills and information necessary for enjoying swimming. Emphasis on personal safety. (S/U only.)

PEN 2113 LIFEGUARD TRAINING (2)
PR: PEN 2122 or equivalent. Knowledge and skills necessary for saving the lives of others in the event of aquatic emergency. ARC certification offered. (S/U only.)

PEN 2122 SWIMMING II (2)
PR: PEN 1121 or equivalent. Continuation of PEN 1121. Special emphasis on development of endurance and efficient stroking. (S/U only.)

PEN 2136 SKIN & SCUBA DIVING (2)
PR: PEN 2172 or equivalent. Development of the essential skills and knowledge necessary for enjoying the sport of Skin & Scuba Diving. Correct utilization and care of equipment; emphasis on personal safety. (S/U only.)
PET 3251 SPORT IN SOCIETY; CRITICAL ISSUES (3)
The purpose of this course is to study organized sport as a persuasive part of contemporary society. By increasing understanding of some of the issues and controversies based in the structures of sport and society, individuals will be able to improve sport experiences for themselves and others.

PET 3511 SELECTED TOPICS (1-3)
Topics offered are selected to reflect student need and faculty interest. May be repeated up to 9 credit hours. (S/U only.)

Physical Education – Professional
HLP 4722 Health and Physical Education for the Child (2)
PR: Admission to the Elementary Program. A study of the importance of movement competency and its contribution to the development of a positive self-concept in children; content and methodology for developing appropriate movement experiences for children; content and methodology for teaching elementary health science.

HLP 4941 WELLNESS INTERNSHIP (12)
PR: CC. Completion of all curriculum requirements. Supervised performance in adult fitness and/or wellness programs. Full semester on-site. Open to Wellness Leadership Physical Education Majors only. (S/U only.)

HSC 3200 FIRST AID (2)
Meets the American Red Cross certification requirements in standard and advanced first aid.

HSC 3301 HEALTH, SAFETY, NUTRITION AND MOTOR SKILLS FOR THE YOUNG CHILD (3)
Provide students with the knowledge to teach developmentally appropriate motor activities; to provide continuous health services; create and maintain a healthy learning environment; and sequence appropriate health instruction for Pre-K through 3rd grade students.

PEP 3840 PRACTICUM IN HEALTH PROMOTION/WELLNESS (4)
PR: CI. Completion of Semesters I and II and admission to the College of Education. Practical experience as a professional in a community or worksite health promotion or wellness program. (S/U only.)

PEP 3951 COMMUNICATION SKILLS FOR WELLNESS LEADERS – 6A (3)
PR: Completion of Semesters I and II in Wellness Leadership track or CI. Designed to develop knowledge and skills in communication and counseling that is specific to wellness and health promotion.

PEQ 3110 AQUATICS (2)
PR: Red Cross beginning swimmer’s skills or equivalent. Includes analysis of swimming skills, teaching methodology, conducting class activities, and organizing and conducting aquatic programs.

PEQ 3170 AQUATIC EXERCISE (2)
PR: CC. An instructor training course in aquatic exercise. Focuses on teaching aerobic, strength, flexibility, and weight control exercises performed in swimming pools. Open to non-majors.

PET 2622C CARE AND PREVENTION OF PHYSICAL INJURIES (3)
Principles and techniques of conditioning athletes for competition; prevention and care of injuries in physical education and athletic activities.

PET 3010 PERSONAL/PROFESSIONAL DEVELOPMENT SEMINAR (3)
PR: CC. Identification of personal and professional knowledge, skills, and attitudes necessary for successful professional practice of physical educators and wellness leaders. Introduction to career opportunities and the historical, philosophical, and sociological foundations of the profession. Development of a personal-professional development plan. Fieldwork required. Majors only.

PET 3031 MOTOR DEVELOPMENT AND ASSESSMENT (3)
PR: CC. Study of the assessment, evaluation and motor development performance of children and adolescents and application of principles of motor skills acquisition in physical education instruction. Open to non-majors.

PET 3089 SURVEY OF WELLNESS PROGRAM (3)
PR: CC. An analysis of various types of wellness programs in the public and private sector including community-based programs, commercial health and fitness enterprises, government-based programs, corporate-based programs, and hospital health and fitness centers.

PET 3310 KINESIOLOGY (3)
PR: CC. A study of the structure and function of the skeletal and muscular systems and of mechanical principles related to psycho-motor performance. Open to non-majors with permission from instructor.

PET 3351 EXERCISE PHYSIOLOGY I (3)
PR: CC. A study of the effects of physical activity on the body. Topics include acute and chronic adaptation of the cardiovascular, muscular, metabolic, hormonal, and energy systems to exercise. Open to non-majors with permission from instructor.

PET 3421 CURRICULUM AND INSTRUCTION IN PHYSICAL EDUCATION (3)
PR: CC. Development of knowledge and skills related to the instruction process of physical education. Preparation of materials and planning instruction.

PET 3441 INSTRUCTIONAL DESIGN AND CONTENT: MIDDLE SCHOOL PHYSICAL EDUCATION (3)
PR: CC. The development of physical education content and instructional practices for middle school students. The focus is upon matching appropriate content and learning experiences to the unique needs of the pre- and early adolescent learner.

PET 3943 PHYSICAL EDUCATION INTERNSHIP: MIDDLE SCHOOL (4)
PR: CC. A part-time internship in middle school physical education. Focus on the relationship of physical education to the needs of the pre- and early adolescent learner, the organization and purpose of the middle school, and application appropriate content and methodologies.

PET 4304 PRINCIPLES AND ISSUES IN COACHING (3)
The application of principles from philosophy, psychology, sociology, and physiology to competitive athletics and coaching.

PET 4353 EXERCISE PHYSIOLOGY II (3)
PR: CC. & PET 3352. A study of Exercise Physiology focusing on the adult. Includes specific populations such as the obese, heart patients, arthritics, elderly, and high performance athletes. Open to non-majors with permission from instructor.

PET 4384 HEALTH-FITNESS APPRAISAL & EXERCISE PRESCRIPTION (3)
PR: CC. & PET 3352. Techniques in conducting health-fitness tests and exercise prescription for adults. Includes cardiovascular strength, flexibility, body composition, health risk testing, exercise prescribing, and monitoring. Open to non-majors.

PET 4401 ORGANIZATION & ADMINISTRATION OF PHYSICAL EDUCATION PROGRAMS (3)
PR: CC. A study of organizational and administrative procedures for physical education programs in elementary and secondary schools. Includes scheduling, budget, facilities, extra-curricular programs, and the selection and supervision of staff.

PET 4404 ORGANIZATION & ADMINISTRATION OF WELLNESS PROGRAMS (3)
PR: CC. Design and implementation of various types of wellness programs with emphasis on assessment and evaluation, management, staffing, participant adherence, program design, budgeting, legal liability, and marketing.

PET 4432 INSTRUCTIONAL DESIGN AND CONTENT: PHYSICAL EDUCATION ELEMENTARY (3)
PR: CC. This is the second of a three-course sequence in which students study movement forms and instructional processes suitable for elementary age students.
PET 4433 INSTRUCTIONAL DESIGN AND CONTENT: PHYSICAL EDUCATION ELEMENTARY II (3)
This course prepares students to select, plan, conduct complex movement experiences for students K-6.

PET 4442 INSTRUCTIONAL DESIGN AND CONTENT: PHYSICAL EDUCATION SECONDARY (3)
PR: CC. Development of knowledge and skills related to the teaching of selected movement activities such as team sports, gymnastics, and physical fitness. Focus is on understanding mechanical principles utilized within those activities as well as on instructional progression and the preparation of materials for instruction at the secondary school level.

PET 4443 INSTRUCTIONAL DESIGN AND CONTENT: PHYSICAL EDUCATION SECONDARY II (3)
PR: CC. In this course, students are prepared to plan, conduct, and evaluate complex movement experiences in games, dance, gymnastics and physical fitness appropriate for students.

PET 4905 INDEPENDENT STUDY: PROFESSIONAL PHYSICAL EDUCATION (1-4)
PR: CI. Specialized independent study determined by the student's needs and interests. May be repeated when subjects vary. (S/U only.)

PET 4942 PHYSICAL EDUCATION PRE-INTERNSHIP: ELEMENTARY (4)
PR: CC. A part-time internship in elementary school physical education. Focus on the nature of the total elementary school curriculum, characteristics of students, and application of appropriate content and instructional competencies. (S/U only.)

PET 4944 PHYSICAL EDUCATION PRE-INTERNSHIP: SECONDARY (4)
PR: CC. A part-time internship in high school level physical education with focus on the relationship of physical education to the needs of the early adolescent and the implementation of appropriate content and methodology. (S/U only.)

PET 4946 INTERNSHIP IN TEACHING PHYSICAL EDUCATION: ELEMENTARY (12)
PR: CC. A full-time internship in the elementary school in which the student undertakes the full range of teaching responsibilities in elementary physical education. May not be repeated. (S/U only.)

PET 4947 INTERNSHIP IN TEACHING PHYSICAL EDUCATION: SECONDARY (12)
PR: CC. A full-day internship in middle, junior or senior high school physical education programs with focus on the implementation of appropriate content and methodology to meet the needs of secondary students. (S/U only.)

Psychological and Social Foundations

EDF 2005 INTRODUCTION TO EDUCATION AND FIELD EXPERIENCE (3)
Introductory survey course required for admission to the College of Education. Focuses on education as a field of study and teaching as a profession. Includes lecture and field experience.

EDF 3122 LEARNING AND THE DEVELOPING CHILD (3)
PR: General psychology and admission to College of Education. Preadolescent child growth and development, learning theory, and behavioral analysis applied to instruction and to the organization and management of the classroom.

EDF 3214 HUMAN DEVELOPMENT AND LEARNING (3)
PR: General psychology and admission to College of Education. Application of respondent and operant learning principles to classroom learning, teaching models for different instructional goals, analysis of teacher behavior, microteaching.

EDF 3228 HUMAN BEHAVIOR AND ENVIRONMENTAL SELECTION -6A -XMW (3)
Learning principles, behavior analysis applied to global environmental and social issues. Requires elementary computer word processing skills.

EDF 3542 PHILOSOPHY OF EDUCATION -XMW (4)
PR: Upper level standing. A study of philosophy of education with an emphasis on aspects that are relevant to an understanding of the issues and problems of American education.

EDF 3604 SOCIAL FOUNDATIONS OF EDUCATION -XMW (3)
PR: Upper Level Standing. Social, economic and political context within which schools function and the values which provide direction for our schools; the culture as a motivating influence in instruction; and the ways in which ethnicity, race, social class, gender and language background affect access to educational and economic opportunity and achievement.

EDF 4111 CHILD GROWTH AND LEARNING (3)
PR: Upper level standing and admission into Early Childhood Program or CI. An introduction to the principles of child growth and learning as they relate to the education of young children. Special emphasis is placed on the contributions of family and community to these developmental processes.

EDF 4131 LEARNING AND THE DEVELOPING ADOLESCENT (4)
PR: General psychology and admission to College of Education. Adolescent growth and development, learning theory, and behavioral analysis applied to instruction and to the organization and management of the classroom.

EDF 4905 INDEPENDENT STUDY: EDUCATIONAL FOUNDATIONS (1-4)
PR: CI. Specialized independent study determined by the student's needs and interests. May be repeated when subjects vary. (S/U only.)

EDF 4909 DIRECTED STUDY: EDUCATIONAL FOUNDATIONS (1-3)
PR: Senior Standing. To extend competency in teaching field. Offered only as a scheduled class.

EDF 5136 ADOLESCENCE (4)
Study of the educational, intellectual, personality, physical, social and vocational factors in adolescence and their importance for school personnel.

EDF 5285 PROGRAMMED INSTRUCTION AND TEACHING MACHINES (3)
Principles for programming in the several academic subjects.

EDF 5672 AMERICAN DEMOCRACY AND PUBLIC EDUCATION (3)
Principles for programming in the several academic subjects.

EDG 2701 TEACHING DIVERSE POPULATIONS AND FIELD EXPERIENCE (3)
Introductory survey course required for admission to the College of Education. Places schools and teaching within the context of the U.S. as a pluralistic society. Topics include: the demographics of diversity; prejudice; elements of culture; American heritage of diversity and its value; and barriers to cultural understanding. Includes lecture and field experience.

IDS 3115 VALUES AND CHOICES -6A -XMW (3)
An in-depth examination of values and their relationship to choices in contemporary society using historical perspective and inquiry of moral/ethical dilemmas. Available to majors or non-majors.

MHS 4001 INTRODUCTION TO GUIDANCE PROCESSES (3)
PR: Upper level standing. An introduction to the role and function of guidance, school psychology, social work and other pupil personnel services. Opportunities for increasing self awareness.

MHS 4052 HUMAN RELATIONS SKILLS IN COUNSELING -XMW (4)
PR: EGC 4001 or CI. Introduction to the theory of human relations dynamics and development of skills required for effective interpersonal relations. Lecture sessions and laboratory training.

MHS 4905 INDEPENDENT STUDY: GUIDANCE AND COUNSELING EDUCATION (1-4)
PR: CI. Specialized independent study determined by the student's needs and interests. May be repeated when subjects vary. (S/U only.)

SDS 4040 INTRODUCTION TO STUDENT PERSONNEL WORK IN HIGHER EDUCATION (2)
PR: CI. Study of student personnel services in institutions of higher education. Identification of the needs of students and...
of the ways to respond to meet these needs. Survey of
service units on a campus in terms of structure, organiza-
tion, funding, etc.

SLS 1101 THE UNIVERSITY EXPERIENCE
PR: Freshman and Transfer Students. A first-year "student
success" course. In seminars, small groups discuss the
academic qualities necessary to succeed at USF. Topics
include purposes of higher education, structure and func-
tions of USF, overview of the processes of career planning
and selecting a major, study skills, and managing out-of-
class time.

SLS 2401 CAREER DEVELOPMENT PROCESS
(2)
Students will study vocational choice theories and partici-
pate in career decision processes. Development of self-
awareness and knowledge of career opportunities and
requirements necessary for decision making. Available to
lower level majors or non-majors.

Science Education

SCE 4237 SCIENCE, TECHNOLOGY, SOCIETY
INTERACTION - 6A - XMW
(4)
Achieve a historical and philosophical understanding of (1)
the nature of the scientific enterprise: interaction of science,
technology, and society (STS), (2) how to teach STS includ-
ing the use of computers and related technologies, and (3)
intricacies of sample STS topics. May be repeated when
topics are not duplicated.

SCE 4305 COMMUNICATION SKILLS IN THE
SCIENCE CLASSROOM
(2)
Reading and communication skills important in under-
standing scientific literature and communicating findings to
others.

SCE 4310 TEACHING ELEMENTARY SCHOOL SCIENCE
PR: Admission to Elementary Program and completion of
General Education Requirements in the Natural Science
area. Techniques and materials for teaching science in the
elementary school.

SCE 4320 TEACHING METHODS IN MIDDLE GRADE SCIENCE
(3)
PR: Completion of 25 semester hours of Science or CC.
Survey techniques and materials unique to science, grades
5-9. Not designed for high school certification purposes.

SCE 4330 TEACHING METHODS IN THE SECONDARY
SCHOOL-SCIENCES
PR: Completion of 26 hours in approved science areas,
EDG 4620 (or CR), and CC. Techniques and materials of
instruction in secondary school sciences.

SSE 4333 TEACHING MIDDLE GRADES SOCIAL SCIENCE
(3)
Designed to study techniques and strategies employed by
social sciences teachers that are effective in motivating
middle school aged youth to acquire the information, skills,
and modes of reasoning unique to the social sciences. Stu-
dents are expected to plan and present instructional plan(s) demon-
strating the use of various methods, techniques, and mate-
rials that achieve concrete outcomes. Theoretical founda-
tions of social studies are also studied. Fieldwork in a
middle school is required.

SSE 4334 TEACHING SECONDARY GRADES SOCIAL SCIENCE
(3)
PR: SSE 4333 CR: SSE 4640. This course is a continuation
of SSE 4333 with further development of the instructional
techniques and strategies and the information, skills, and
modes of reasoning unique to the social sciences with an
emphasis on the secondary school environment. The teach-
ing profession, school settings, legal, and classroom man-
agement issues are also studied. Fieldwork in a high
school is required.

SSE 4335 TEACHING SOCIAL SCIENCE THEMES
(3)
PR: SSE 4333, SSE 4334 & SSE 4640. The course is a
laboratory-based, capstone course in which the knowl-
edge, skills, and dispositions learned in SSE 4333, SSE
4334 and SSE 4640 are brought together and demonstrated
by students teaching social studies content using the the-
matic approaches adopted by the National and State ac-
crediting bodies.

SSE 4380 GLOBAL AND MULTICULTURAL PERSPECTIVES
IN EDUCATION - XMW
(3)
PR: EDG 3604 and EDG 4620, or CI. Examination of the
major issues surrounding global and multicultural per-
spectives in education (Available to non-Education majors.)

SSE 4640 COMMUNICATION SKILLS IN SOCIAL SCIENCES
(2)
PR: SSE 4333. CR: SSE 4340. Preparation for instruction
and demonstration of instructional techniques in social
sciences covered in SSE 4333 and SSE 4340 with an emphasis
on students developing their communication, presenta-
tion, and organizational skills. (S/U only.)

SSE 4670 ECONOMICS USA: PRINCIPLES OF ECONOMICS
FOR TEACHERS
(3)
A television course focusing on content and teaching meth-
ology related to micro/macro economic principles. (S/U
only.)

SSE 4936 SENIOR SEMINAR IN SOCIAL SCIENCE EDUCATION
(2)
PR: Senior standing; CR: SSE 4940. Synthesis of teacher
candidate's courses and preparation for the professional
interview and application process.

SSE 4940 INTERNSHIP: SOCIAL SCIENCE EDUCATION
(1-12)
CR: SSE 4936. One full semester of internship in a public
or private school. In special programs where the intern
experience is distributed over two or more semesters,
students will be registered for credit which accumulates
from 9 to 12 Semester hours. (S/U only.)

SSE 5644 ECONOMIC DECISION-MAKING FOR TEACHERS
(3)
PR: Admission to the College of Education or CC. Provides
teachers (K-12) with content related to the operation of
businesses in a market economy. Teachers analyze eco-

omic/business concepts from the perspective of individu-
als currently operating businesses in the Tampa Bay area.
Focus of the instruction is on the application of content to K-
12 instructional programs.

Special Education

EED 4011 INTRODUCTION TO BEHAVIOR DISORDERS
(3)
PR: EEX 4011, or equivalent or CI. Survey of emotional,
behavioral and social disorders in children and youth.
History of the field, definitions, classifications, theoretical
approaches, intervention techniques, classroom manage-
ment, service delivery models, trends and issues.

EED 4095 INDEPENDENT STUDY: BEHAVIOR DISORDERS
(1-3)
PR: CI. Specialized independent study determined by the
student's needs and interests. May be repeated up to a
maximum of 3 credit hours when subjects vary. (S/U only.)

EED 4099 DIRECTED STUDY: BEHAVIOR DISORDERS
(1-3)
PR: Senior standing. To extend competency in teaching
field.

EED 4941 UNDERGRADUATE SUPERVISED PRACTICUM
IN BEHAVIOR DISORDERS
(1-6)
PR: EEX 4011 and major in behavior disorders. Supervised
field experience in assessment, classroom management,
and clinical teaching with children who have emotional and
behavioral disabilities. Repeatable up to 6 credit hours. (S/
U only.)

EEX 4011 FOUNDATIONS OF SPECIAL EDUCATION
(3)
Characteristics and needs of children who have learning
disabilities, emotionally disabilities, hearing impairments, mentally retardation, physically handicapped, speech impairments, visual limitations, and who are gifted and talented.

EEX 4070 INTEGRATING EXCEPTIONAL STUDENTS IN THE REGULAR CLASSROOM (2-3)
Designed for non-special education majors. Includes basic identification techniques and strategies to promote academic and social integration and interaction of "mainstreamed" exceptional students. Concurrent field experience projects are included. No credit for department majors.

EEX 4221 EDUCATIONAL ASSESSMENT OF EXCEPTIONAL STUDENTS (3)
PR: EDF 3214 and EEX 4011. Taken concurrently with EED 4941, ELD 4941, or EMR 4941. Introduction to assessment of exceptional students through formal and informal techniques. Emphasis placed on the interpretation of information for educational programming and individualization of instruction.

EEX 4243 EDUCATION OF THE EXCEPTIONAL ADOLESCENT AND ADULT (3)
PR: EEX 4011 or equivalent or CI. Procedures for implementing educational programs for exceptional adolescents and adults. Topics include service delivery, formal and informal evaluation, academic remediation, advocacy, utilization of ancillary services, alternative programs, and community resources.

EEX 4604 BEHAVIOR MANAGEMENT FOR SPECIAL NEEDS AND AT RISK STUDENTS (3)
PR: EEX 4011. Taken concurrently with EED 4941, ELD 4941, or EMR 4941. Techniques to prevent, analyze, and manage challenging and disruptive classroom behavior as well as teaching social skills.

EEX 4742 NARRATIVE PERSPECTIVES ON EXCEPTIONALITY: CULTURAL AND ETHICAL ISSUES -6A-XLW (3)
PR: Junior Standing. This course is designed to use literature as a way to interpret the lives of individuals with disabilities, their families and those who play an educational role in their lives. The course also addresses cultural and ethnic diversity so as to better analyze the role of ethics and values in decisions made pertaining to individuals with disabilities.

EEX 4846 CLINICAL TEACHING IN SPECIAL EDUCATION (3)
PR: EEX 4011. Taken concurrently with EED 4941, ELD 4941, or EMR 4941. Effective teaching principles, instructional management procedures, and specialized teaching techniques for exceptional students.

EEX 4905 INDEPENDENT STUDY: EXCEPTIONAL STUDENT EDUCATION (1-3)
PR: CI. Specialized independent study determined by the student's needs and interests. May be repeated up to 3 credit hours when subjects vary. (S/U only.)

ELD 4909 DIRECTED STUDY: SPECIFIC LEARNING DISABILITIES (1-3)
PR: Senior standing. To extend competency in teaching field.

EMR 4941 UNDERGRADUATE SUPERVISED PRACTICUM IN MENTAL RETARDATION (1-6)
PR: EEX 4011 and major in Mental Retardation. Supervised field experiences in assessment, behavior management and clinical teaching with classes for children who have specific learning disabilities. Repeatable up to a total of 6 hours. (S/U only.)

EMR 4909 DIRECTED STUDY: MENTAL RETARDATION (1-3)
PR: Senior standing. To extend competency in teaching field. Offered only as a scheduled class.

EMR 4941 UNDERGRADUATE SUPERVISED PRACTICUM IN MENTAL RETARDATION (1-6)
PR: EEX 4011 and major in Mental Retardation. Supervised field experiences in assessment, behavior management, and clinical teaching with children who have mental retardation. Repeatable up to a total of 6 hours credit. (S/U only.)

EPH 5051 ADVANCED THEORIES IN MOTOR AND PHYSICAL DISABILITIES (3)
PR: EEX 4011 or CI. Biological and functional aspects of motor and physical health disabilities, including dysfunctions in central nervous system covering motor, sensory, language and psychological disorders.

EPH 5321 EDUCATIONAL STRATEGIES FOR PHYSICALLY AND MULTIHANDICAPPED STUDENTS (3)
PR: EPH 5051. Educational management of students with cerebral palsy, motor disabilities and multihandicapped conditions including rehabilitation and other community services.
The College of Engineering offers undergraduate and graduate programs to prepare students for a broad spectrum of professional careers in engineering. The undergraduate programs of the College are designed to provide students with a sense of human values and the scientific/technical foundation necessary for a lifetime of continued learning.

The programs offered by the College of Engineering to meet the diverse requirements of the future cover the two areas of: Professional Engineering and Applied Science. The specific degrees and services offered are as follows:

- Bachelor of Science in Chemical Engineering (B.S.,Ch.E.)
- Bachelor of Science in Civil Engineering (B.S.,C.E.)
- Bachelor of Science in Computer Engineering (B.S.,Cp.E.)
- Bachelor of Science in Electrical Engineering (B.S.E.E.)
- Bachelor of Science in Industrial Engineering (B.S.I.E.)
- Bachelor of Science in Mechanical Engineering (B.S.M.E.)
- Bachelor of Science in Computer Science (B.S.C.S.)
- Bachelor of Science in Information Systems (B.S.I.S.)

The Accreditation Board for Engineering and Technology, Inc. (ABET) has inspected and accredited the programs of the College of Engineering defined by the Chemical Engineering, Civil Engineering, Computer Engineering, Electrical Engineering, Industrial Engineering and Mechanical Engineering. The Bachelor of Science program in Computer Science is accredited by the Computing Sciences Accreditation Commission (CSAC) of the Computing Sciences Accreditation Board (CSAB).

The above spectrum of program offerings provides the prospective student with a choice of avenues depending upon individual interests, career objectives, and capabilities for a significant technological contribution. These programs are described in more detail under their respective catalog headings.

Laboratory experience as well as real-world participation in technological problem-solving is a key aspect of a professional engineer's college education. The College of Engineering, in implementing this need, augments its own modern laboratory and research facilities by close contact with the professional and research facilities by close contact with the professional societies and the many industries in the metropolitan Tampa Bay area.

Students interested in particular programs offered by the College of Engineering should direct their inquiries to the College of Engineering Office of Advising.

PROFESSIONAL ENGINEERING

The College of Engineering recognizes that modern engineering solutions draw on knowledge of several branches of engineering. The College recognizes that technical and societal developments will lead to shifting of the relative emphasis on various branches of engineering, triggered by new needs or a reassessment of national goals. For this reason the College's programs include a strong engineering foundation (core) portion, designed to equip the prospective engineer with a broad base of fundamental technical knowledge. To this foundation is added the student's specialization (option) of sufficient depth to prepare him/her to successfully embark on a professional career.

The Bachelor of Science degrees offered in various engineering fields provide the student a broad education with sufficient technical background to effectively contribute in many phases of engineering not requiring the depth of knowledge needed for advanced design or research. However, while the baccalaureate degree is considered the minimum educational experience for participating in the Engineering profession, and as such is the first professional degree, students interested in design and research are strongly encouraged to pursue advanced work beyond the baccalaureate to effectively contribute in many phases of engineering.

Updating their information skills and most are obtaining advanced information by means of formal graduate study, seminars, special institutes and other such systems designed for this purpose.

The Bachelor of Science degree program (in a designated engineering field requires 136 semester hours) and the Master of Science degree in the same field may be pursued simultaneously in a program of 166 semester hours called the 5-Year Program. These programs are specifically designed to prepare an individual for a professional career as an engineer. These programs have as their foundation a core of subject material encompassing Humanities, Social Science, Mathematics, Science, and Engineering which is required of all students. In addition to the core subject material, each student will complete specialization studies in a designated field under the direction of one of the administrative departments of the College.

The engineering programs of the College have been developed with an emphasis on three broad aspects of engineering: design, research, and technology. These programs recognize that future technological and societal developments draw on knowledge of several branches of engineering. It also recognizes that future technological and societal developments draw on knowledge of several branches of engineering.

Preparation for Engineering

Students planning to attend USF's College of Engineering should familiarize themselves thoroughly with the College's admissions standards and the requirements that are more stringent than the University's minimum entrance requirements.

The high school student anticipating a career in engineering should elect the strongest academic program that is available while in high school. Four years each of English, mathematics and science (preferably including Chemistry and Physics), as well as social science programs in the Social Sciences and Humanities, are most important to success in any engineering college.

Prospective students considering engineering at the University of South Florida who lack certain preparation in high school must elect to follow a program to overcome their deficiencies. One alternative might be that such a student take some remedial work and a less accelerated program as a Pre-Engineering student. The University of South Florida generally offers most required pre-engineering courses every semester. As another alternative, students may wish to avail themselves of the State's system of junior/community colleges which offer a wide range of remedial coursework, and many of which also offer full programs in pre-engineering (first two years' coursework).

Prospective students should follow a pre-engineering program leading to an A.A. degree. All transfer students should complete as much of the mathematics, science and engineering core coursework as is available to them. Transfer students should be aware that the College expects them to meet its admission requirements listed in this section under college regulations for graduation just as it expects its own students to meet these requirements. Junior/community college students planning to transfer to the University of South Florida's engineering program at the junior level from a State of Florida operated college or university should follow a pre-engineering program leading to an A.A. degree.

All transfer students should complete as much of the mathematics, science and engineering core coursework as is available to them. Transfer students are encouraged to familiarize themselves thoroughly with the College's Admissions Office (1813/974-2684) furnishing sufficient details to permit meaningful response.

USF
Undergraduate Admission to the College

Students may apply to the College of Engineering upon initial entry to the University by declaring Engineering as their intended major on their admissions application. Upon acceptance to the University, engineering will review necessary credentials and notify applicant of Engineering status.

USF students may apply through the Advising Office, in the College of Engineering. To be considered for admission to the College, an applicant must be accepted by the University as a degree-seeking student and be academically in good standing.

Applicants whose native language is other than English must submit TOEFL scores to the College of Engineering. The minimum TOEFL score must be 550.

Engineering Admission Requirements

1. Freshmen:
   a. Test Scores:
      SAT—composite of 1050 minimum with a minimum quantitative of 550.
      ACT—composite of 25 minimum and mathematics of 25 minimum.
   b. High School Mathematics: Should include sufficient algebra and trigonometry to enter Engineering Calculus I. Math Placement Test must be passed to enter Calculus I.
   c. High School Grade Point Average of 2.5/4.0.

2. Transfer Students:
   Transfer students should complete the following prerequisite courses listed below at the lower level prior to entering the University. If these courses are not taken at the community college, they must be completed before the degree is granted. Unless stated otherwise, a grade of “C” is the minimum acceptable grade.

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
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<tbody>
<tr>
<td>CHM X045/X045L</td>
<td>General Chemistry I (with lab)</td>
</tr>
<tr>
<td>CHM X046/X046L</td>
<td>General Chemistry II (with lab)</td>
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<tr>
<td>PHY X048/X048L</td>
<td>General Physics and Laboratory I</td>
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<tr>
<td>PHY X049/X049L</td>
<td>General Physics and Laboratory II</td>
</tr>
<tr>
<td>MAP X302</td>
<td>Differential Equations</td>
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<tr>
<td>EGS 1113</td>
<td>Introduction to Design Graphics</td>
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<tr>
<td>MAC X281 or MAC X311</td>
<td>Engineering Calculus I</td>
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<tr>
<td>MAC X282 or MAC X312</td>
<td>Engineering Calculus II</td>
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<tr>
<td>MAC X283</td>
<td>Engineering Calculus III</td>
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<tr>
<td>or MAC X313</td>
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</table>

Admission to Programs in Engineering

This program is under revision. Courses indicated with XXX rather than course numbers will be submitted for approval during 1999-99. See your academic advisor for additional information.

Once a student has been admitted to the College of Engineering, he/she must then seek admission into one of the specific departments.

The minimum requirements for acceptance by the departments administering the Engineering programs in Chemical, Civil, Electrical, Industrial and Mechanical Engineering are:

2. Satisfactory completion of EGN 3000 and EGN 3000L - Foundations of Engineering and Lab.
3. Completion of the following courses with a cumulative grade point average of 2.0 in these courses based on all attempts.
   - EGN 2210 - Computer Tools for Engineers
   - EGN 3311 - Statics
   - EGN 3343 - Thermodynamics I
   - EGN 3443 - Engineering Statistics I
   - EGN 3373 - Introduction to Electrical Systems I

   The minimum requirements for admission to the Computer Engineering program offered by the Computer Science and Engineering Department are completion of sections 1, 2 and 3 above and:

1. Completion of:
   - CDP XXXX - Program Design
   - CDA XXXX - Computer Organization
   - COT 3100 - Introduction to Discrete Structures
   with a minimum of 2.6 based on all attempts.
2. The minimum requirements for admission to the Computer Science program offered by the Computer Science and Engineering Department are completion of sections 1 and 2 above and completion of:
   - COP XXXX - Program Design
   - CDA XXXX - Computer Organization
   - Computer Science & Lab
   with a minimum gpa of 2.6 on all attempts.
3. The minimum requirements for admission to the Information Systems program offered by the Computer Science and Engineering Department are completion of:
   - COP XXXX - Program Design
   - CDA XXXX - Computer Organization
   with a minimum gpa of 2.6 on all attempts.

Prior to being admitted to a department, a student may be permitted to take no more than two departmental engineering courses.

A student can have his or her academic records housed in a department and be advised by the department advisor prior to completing requirements for departmental admission if he or she so chooses. This type of student must still comply with all of the above-listed requirements prior to official acceptance by the department.

Direct Departmental Admission

The purpose of Direct Departmental Admission (DDA) is to permit students who have displayed academic potential for completing the rigors of Engineering to accelerate their admission to a particular department. The student must apply through the Advising Office of the College of Engineering. The requirements for Direct Departmental Admission (DDA) are:

1. Admission to the College of Engineering.
2. High School Students: SAT scores of 500 Verbal and 600 Mathematics, a combined average score of 1100; ACT scores of 25 minimum.
3. Transfer Students: Successful completion of the following 17 hours of courses with a minimum grade point average of 3.0. (Graduates in these courses must be either “A” or “B” - a student with a “C” or less grade in any one of the below-listed courses is not eligible for DDA.)
   - MAC 2281 - Engineering Calculus I 3
   - MAC 2282 - Engineering Calculus II 3
   - MAC 2283 - Engineering Calculus III 3
   - PHY 2048 - General Physics I & Lab 3+1
   - or
   - PHY 2049 - General Physics II & Lab 3+1
   - or
   - CHM 2045 - Chemistry & CHM 2045L 3+1

   17 hrs.

Engineering Advising

Effective pursuit of engineering and engineering related studies requires careful attention to both the sequence and the type of courses taken. The engineering curriculum differs in key respects from the study plans of other majors - even in the freshmen year. It is, therefore, important, and the College requires, that each student plan his/her academic program and have it approved by a designated adviser in the College of Engineering.

New students must attend the University’s Orientation program. They are assigned an engineering adviser during this program and receive advisement for their first semester at that time.

The student and adviser jointly work out a plan of study which meets both the student's career objectives and the College of Engineering’s degree requirements. The advisers maintain the College of Engineering's student records.
Students not yet meeting departmental admissions requirements may elect to be advised by the general engineering advising office or the department of their intended specialization.

While the College provides advising services to assist students with academic planning, the responsibility for seeing that all graduation requirements are met rests with the students. A copy of the Student Academic Support System (SASS) report may be obtained in the Engineering Advising Office.

The College of Engineering requires all undergraduates to apply for graduation the semester prior to the anticipated graduation term. Necessary forms and instructions can be obtained in the Engineering Advising Office.

Departments & Programs

The supervision of the academic programs for the College is the function of the six administrative departments together with several coordinators. The departments are responsible for the professional programs in engineering and engineering science. Each department is responsible for programs, faculty, laboratories and students assigned to it.

Chemical Engineering

This department offers coursework and study in all areas fundamental to Chemical Engineering. Topics included are thermodynamics, flow, heat transfer, mass transfer, separation processes, chemical reactors, instrumentation and process control, economics optimization, computer methods, computer aided design techniques, and process plant design. These courses, together with mathematics, physics, chemistry, other interdisciplinary engineering fundamentals, English, and liberal arts courses, provide the basis for long range professional progress. Because of the many professional areas available for employment to the chemical engineer, the students are also required to take a number of electives from areas such as biotechnology, materials, and environmental engineering. These electives are designed to broaden the experience, and, therefore, the employment possibilities of our graduates. The department administers the Bachelor of Science in Chemical Engineering (B.S.Ch.E.), the Master of Science in Chemical Engineering (M.S.Ch.E.), the Master in Chemical Engineering (MCHE), the Master of Engineering (M.E.), the Master of Science in Engineering (MSE), and the Doctor of Philosophy (Ph.D.) degrees. The Chemical Engineering Department also offers a sequence of courses in Chemical Engineering Science, biotechnology and biomedical engineering.

A sequence of courses in the engineering aspects of biotechnology is currently available within the Chemical Engineering program. Topics include applied microbiology, fermentation, enzyme technology, and pharmaceutical engineering.

Biomedical Engineering is a highly interdisciplinary program, drawing from all engineering disciplines, biology, physical sciences, biomedical and clinical sciences. An undergraduate Certificate in Biomedical Engineering is available to students in all areas of engineering. This Certificate is designed with two main objectives: 1) to prepare interested students for admission into medical school, and 2) to prepare students for graduate work in either Biomedical Engineering, other engineering disciplines, or the Biomedical Sciences. Opportunities for students to gain research experience exist within the College of Engineering and the Health Sciences Center.

Please see the certificate programs section of this catalog for more information on these programs.

Civil and Environmental Engineering

This department offers course work and study pertinent to Civil Engineering, Engineering Mechanics, Material Science, and Environmental Engineering. Areas of concentration are structural engineering, engineering mechanics, geotechnical engineering, transportation engineering, water resources engineering, materials and corrosion engineering, and environmental engineering.

Students completing the program may enter the profession as engineers in the civil, structural, geotechnical, transportation, water resources, environmental, hydraulics, or materials discipline. All of these disciplines share the need for knowledge in the areas of engineering mechanics, civil engineering, material science, and environmental engineering. Through choice of the proper area of concentration, a student has the opportunity to channel academic studies specifically towards his/her career choice.

Grades of the program may commence their engineering careers in either industry, in engineering consulting firms, or in public service at the federal, state, or local level. Initial assignments may include planning, design and implementation of water resources systems; planning and design of transportation and housing systems; regional planning, design, and management for abatement of air, water and solid waste pollution problems; design of bridges and single and multistory structures; and supervision of construction projects.

The department offers the undergraduate degree, Bachelor of Science in Civil Engineering (BSCE) and the following graduate degrees: Master of Science in Civil Engineering (MSE), Master or Science in Engineering (MSE), Master of Science in Environmental Engineering (MSEV), Master of Civil Engineering (MCE), Master of Engineering (ME), Master of Environmental Engineering (MEVE), and Doctor of Philosophy (Ph.D.).

Computer Science and Engineering

This department offers coursework and study in all areas fundamental to Computer Science, Computer Engineering, and Information Systems. Topics dealt with are computer architecture and hardware design, software engineering, computer system organization, operating systems, algorithms and data structures, computer graphics, user interface, computer networks, database systems, robotics, theory of computation and artificial intelligence.

The Department administers the baccalaureate degree programs in Computer Science, Computer Engineering and Information Systems; Master of Science degree programs in Computer Science and in Computer Engineering; and Ph.D. program in Computer Science and Engineering. Our research areas of faculty concentration are 1) computer architecture and VLSI design/testing, 2) artificial intelligence and robotics, 3) graphics/image processing/computer vision, 4) database, 5) networks.

Computing facilities available to students in the Department include several microprocessor and design laboratories for hardware-oriented studies, personal computer laboratories for general use in programming assignments, and networked SUN and DEC workstations for use by majors. The Department also runs a research-oriented network consisting of an Intel Hypercube, a number of SUN, DEC, and IBM workstations, and special purpose image and graphics processors. In addition, the Department has access to a large IBM mainframe facility run by the University Computing Center.

Electrical Engineering

This department offers study in all areas fundamental to Electrical Engineering and the electrical sciences: circuit analysis and design, electronics, communications, computer science, controls, solid state, systems analysis, digital circuit design, etc. Basic concepts are augmented with well-equipped laboratories in networks, electronics, digital systems, microwave techniques and communications. In addition, a general purpose computer facility, a microprocessor laboratory and a microelectronics fabrication laboratory are available to undergraduate and graduate students. The department administers the Bachelor of Science in Electrical Engineering (B.S.E.E.) degree program, as well as the Master of Science in Electrical Engineering (M.S.E.E.) program which are also available to evening and off-campus students. As applicable, the department administers the M.E., M.S.E.S. and the Ph.D. in Electrical Engineering programs.
Industrial and Management Systems Engineering

This department offers study pertinent to the design, evaluation, and operation of a variety of industrial systems, ranging from the analysis of public systems to the operation of manufacturing plants. Topics include production planning and control, production and plant design, applied statistics, operations research, human factors and productivity, manufacturing, and automation. The department has excellent laboratory facilities which support class projects and research in microcomputer applications, computer-aided manufacturing, automation, and applications of robotics. The department administers the Bachelor of Science in Industrial Engineering (B.S.I.E.) degree program, as well as the Master of Science in Industrial Engineering (M.S.I.E.), Master of Industrial Engineering (M.I.E.) and Ph.D. in Industrial Engineering. Evening and off-campus programs are available through the Master of Science in Engineering Management (M.S.E.M.) program. The department also administers the Industrial option in the M.S.E., M.E., and M.S.E.S. programs, as well as the manufacturing option in the M.S.E. program.

Mechanical Engineering

The department offers courses leading to the degrees of Bachelor of Science in Mechanical Engineering (B.S.M.E.), Master of Science in Mechanical Engineering (M.S.M.E.), Master of Mechanical Engineering (M.M.E.), Master of Science in Engineering (M.S.E.), and Doctor of Philosophy (Ph.D.). Coursework includes basic science and mathematics, thermal and fluid sciences, material science, solid mechanics, dynamics, machine design, vibrations, instrumentation and automatic control.

Graduates of this program are employed in research, design, production, marketing, service, installation (contracting), maintenance and operation in such industries as mining, petrochemical, paper, food, power, manufacturing, air-conditioning, defense systems, aerospace, data processing, communications, and automotive.

Laboratories are available for basic instrumentation, thermal and fluid sciences, solid mechanics, data acquisition and control, CAD/CAE, vibrations, and aerodynamics.

Students pursuing the B.S.M.E. degree are required to take the Fundamentals of Engineering examination as the first step towards professional engineering registration.

Engineering Core

Both the four-year and five-year curricula of the College of Engineering Bachelor of Science programs are founded on a common core of coursework which is required of all students. This coursework is designed to give each student a thorough foundation of knowledge on which specializations studies and a professional career can be based. Emphasis is placed on key elements: development of communication skills, familiarity with the social sciences and humanities, a solid base in science and mathematics, a strong foundation in basic engineering sciences and applications and design experience in a field of specialization.

Each degree-granting department has developed a list of courses to provide key elements for the degree offered. While the specific courses will vary slightly from one department to another, the hours in each category will be approximately as follows:

<table>
<thead>
<tr>
<th>Category</th>
<th>Minimum Hours</th>
<th>Maximum Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Non-technical Courses</td>
<td>34</td>
<td>36</td>
</tr>
<tr>
<td>(Social Sciences, Humanities, Communications)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Mathematics, Chemistry and Physics</td>
<td>36</td>
<td>39</td>
</tr>
<tr>
<td>(Minimum)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Basic Engineering Science (Minimum)</td>
<td>36</td>
<td>39</td>
</tr>
<tr>
<td>Department Specialization</td>
<td>31</td>
<td>39</td>
</tr>
</tbody>
</table>

Special requirements exist for Chemical Engineering, Computer Engineering, Computer Science, Information Systems.

Students selecting these fields should make sure they familiarize themselves with these. Detailed information can be obtained from the degree granting department or the College’s Advising Office.

1. Non-Technical Requirements

All students are required to take 45 semester hours to satisfy the complete liberal arts requirements. Thirty-six (36) semester hours will satisfy the general education course requirements and 9 semester hours will satisfy the exit requirements. These requirements are distributed as follows:

- General Education Requirements* Semester Hours
  - English Composition
  - Quantitative Methods
  - Natural Sciences
  - Social Sciences
  - Historical Perspectives
  - Fine Arts
  - African, Latin American, Middle Eastern or Asian Perspectives
  - Total: 36

2. Mathematics and Science Core Requirements

The student with a satisfactory high school preparation must take 35 credit hours of mathematics and science coursework.

(Some credit towards this core requirement can be obtained by passing applicable CEEB Advanced Placement Tests or CLEP Subject Examinations.)

In mathematics this coursework consists of a Calculus for Engineers sequence (or a calculus sequence of equivalent level), Differential Equations, and additional hours of designated courses supportive of the professional judgment. This coursework is designed to equip the student with a sound technical foundation for later, more advanced specialized coursework and the eventual formation of professional judgment. This coursework includes introductory studies in such areas as engineering analysis and computation, statistics, electrical engineering principles, thermodynamics, statics, dynamics, fluids, and properties of materials.

3. Engineering Core Requirements

The prospective engineering major must take a minimum of 35 credit hours of engineering core (foundation) coursework drawn from the major disciplines. This coursework is designed to equip the student with a sound technical foundation for later, more advanced specialized coursework and the eventual formation of professional judgment. This coursework includes introductory studies in such areas as engineering analysis and computation, statistics, electrical engineering principles, thermodynamics, statics, dynamics, fluids, and properties of materials.
**FOUR-YEAR PROGRAM -- BACHELOR OF SCIENCE IN DESIGNATED ENGINEERING FIELD DEGREE**

These engineering degrees are awarded upon successful completion of a program consisting of the required three areas of core coursework—minimum of 101 credit hours—which are described above, and an additional 35 credit hours of coursework in a designated field of specialization. Details covering specific fields are available on request from the responsible department, or from the College's Advising Office.

Programs are offered in the following disciplines of Engineering:

### 1. Chemical Engineering

Students pursuing the Bachelor of Science in Chemical Engineering take coursework in advanced chemistry, thermodynamics, fluids, heat, and mass transfer, separation processes, reacting systems, instrumentation, and control. Students must also satisfactorily complete a design project as part of their program. Students seeking the biotechnology/biomedical certificate are also required to take additional courses in general biology, microbiology, and biochemistry. Special characteristics of the Chemical Engineering curriculum make it imperative that the students retain close contact with their adviser.

Students completing this program normally initiate their careers in process/manufacturing industries. Chemical engineers are found in administrative, technical, and research positions in these industries. Main products of these industries are petrochemicals, polymers, fibers, natural and synthetic fuels, electronic materials, fertilizers, pharmaceuticals, etc.

Solution of modern societal and scientific problems often require the use of chemical engineering skills. A course sequence for chemistry majors, (ECH 3702, ECH 4123C and ECH 4415C), as well as physics majors, (ECH 3702, ECH 3264C, and ECH 4265C), is suggested. These courses will add a strong chemical engineering science background to those degrees. Chemical Engineering students are expected to have access to an IBM compatible personal computer during their last two years of study. Those who do not own one will be severely disadvantaged. The course Chemical Engineering Calculus is required for all non-transfer students. Transfer students are encouraged to take this course. The USF course will first be offered during the spring semester of 2000.

The schedule which follows indicates how a serious student who can devote full time to coursework can satisfy requirements in four academic years. Students without a solid foundation and those who cannot devote full time to academics should plan a slower pace.

**Bachelor’s Curriculum - Chemical Engineering**

This program is under revision. Courses indicated with XXXX rather than course numbers will be submitted for approval during 1998-99. See your academic advisor for additional information.

| Semester I | ENC 1101  | Freshman English I | 3 |
|            | MAC 2281  | Engineering Calculus I | 3 |
|            | CHM 2045  | General Chemistry I | 3 |
|            | EGN 3000  | Foundations of Engineering | 1 |
|            | EGN 3000  | Foundations of Engineering Lab | 2 |
|            |            | *Historical Perspectives Elective | 3 |
|            |            | *Fine Arts Elective | 3 |
|            |            | **Total** | 11 |

| Semester II | ENC 1102  | Freshman English II | 3 |
|             | MAC 2282  | Engineering Calculus II | 3 |
|             | CHM 2046  | General Chemistry II | 3 |
|             | CHM 2045L | General Chemistry I Lab | 1 |
|             | PHY 2048  | General Physics I | 3 |
|             | PHY 2048L | General Physics I Lab | 1 |
|             |            | *ALAMEA Perspective Elective | 3 |
|             |            | **Total** | 17 |

| Summer Term | MAC 2283  | Engineering Calculus III | 3 |
|             | EGN 3311  | Statics | 3 |
|             | CHM 2046L | General Chemistry II Lab | 1 |
|             | PHY 2049  | General Physics II | 3 |
|             | PHY 2049L | General Physics II Lab | 1 |
|             |            | **Total** | 11 |

| Semester III | MAP 2302  | Differential Equations | 3 |
|              | EGN 3373  | Electrical Systems I | 3 |
|              | EGN 2210L | Computer Tools for Engineers | 3 |
|              | EGN 3343  | Thermodynamics I | 3 |
|              | EGN 3443  | Statistics | 3 |
|              |            | *Social Science Elective | 3 |
|              |            | **Total** | 18 |

| Semester IV | EGN 4450  | Introduction to Linear Systems | 2 |
|             | EGN 3355  | Materials | 3 |
|             | ECH 3023  | Introduction to Process Engineering | 3 |
|             | ECH XXXX  | Chemical Engineering Calculus | 3 |
|             | ECH XXXX  | Chemical Engineering Calculus Lab | 1 |
|             | ECH XXXX  | Chemical Engineering Lab I | 1 |
|             |            | **Total** | 13 |

| Semester V | ECH 3264C | Transport Processes I | 3 |
|           | ECH 4123C | Phase & Chemical Equilibria | 3 |
|           | CHM 2210  | Organic Chemistry I | 3 |
|           | CHM 2210L | Organic Chemistry I Lab | 2 |
|           | CHM 4412  | Physical Chemistry III | 3 |
|           |            | **Total** | 14 |

| Semester VI | ECH 4265C | Transport Processes II | 3 |
|            | CHM 2211  | Organic Chemistry II | 3 |
|            | ENC 4931L | Communication for Engineers | 3 |
|            | ECH XXXX  | Chemical Engineering Elective | 3 |
|            |            | *Chemistry Elective | 2 |
|            |            | **Total** | 14 |

| Semester VII | ECH 4323C | Automatic Controls I | 4 |
|              | ECH 4415C | Reacting Systems | 4 |
|              | ECH 4244L | Chemical Engineering Lab II | 2 |
|              | ECH XXXX  | Chemical Engineering Elective | 3 |
|              |            | **Chemistry Elective** | 3 |
|              |            | **Total** | 16 |

| Semester VIII | ECH 4615C | Plant Design and Optimization | 4 |
|              | ECH 4415C | Technical Electives | 2 |
|              | MW-ML (Non-Engineering) | 3 |
|              |            | *Historical Perspectives Elective | 3 |
|              |            | *Social Science Elective | 3 |
|              |            | **Total** | 15 |

*Approved General Education Requirements
**Not from Chem 2XXX, 3400, 3401, 3402, 4070, 4905, 4932, 4970

**Prerequisites (State Mandated Common Prerequisites)**

- Complete the A.A. degree at the community college. Some courses required for the major may also meet General Education Requirements thereby transferring maximum hours to the university. If a student wishes to transfer without an A.A. degree and have fewer than 60 semester hours of acceptable credit, the student must meet the university’s entering freshman requirements including ACT or SAT test scores, GPA, and course requirements.
The following are transferable courses from the Community College that will be accepted in the Math/Science/Engineering areas:

**Math**
- **Calculus**
  - USF C/C
  - MAC 2281 MAC 2311 (3)
  - MAC 2282 MAC 2312 (3)
  - MAC 2283 MAC 2313 (3)

- **Differential Equations**
  - MAP 2302 MAP 2302 (3)

**Chemistry**
- **General**
  - USF C/C
  - CHM 2045 CHM 1045 (3)
  - CHM 2045L CHM 1045L (1)
  - CHM 2046 CHM 1046 (3)
  - CHM 2046L CHM 1046L (1)

**Physics**
- **USF**
  - PHY 2048 PHY 2048 (3)
  - PHY 2048L PHY 2048L (1)
  - PHY 2049 PHY 2049 (3)
  - PHY 2049L PHY 2049L (1)

**Fortran**
- **USF**
  - EGN 2210 COP 2202 (3)

This is a limited access program involving special admissions requirements. Please be aware of the immunization, foreign language, continuous enrollment policies of the university, and qualitative standards required.

**Engineering Admissions Requirements**
Transfer students must have completed the equivalent USF Engineering Calculus sequence with a 2.0 GPA; must have completed one year of equivalent USF General Physics and Chemistry courses with a minimum of 2.0 GPA; must have an overall GPA of 2.0 or better.

**2. Civil and Environmental Engineering**
Students pursuing the Bachelor of Science in Civil Engineering program take designated engineering mechanics, civil engineering, and environmental engineering course work. This course work is supplemented by electives and courses in one of the following areas of concentration:

a. Environmental Engineering
b. Water Resources
c. Geotechnical/Transportation Engineering
d. Materials Engineering
e. Structural Engineering

As a culminating design experience, all students take a Capstone design course relevant to their respective areas of concentration.

The department has the following policies:

a. Mandatory academic advising of students for each term
b. Exit interviews as a graduation requirement for all students
c. Only 2 D grades in engineering courses can be used to fulfill graduation requirements, and
d. All graduating seniors must take the Fundamentals of Engineering Examination

The schedule which follows indicates how a serious, well-prepared student who can devote full time to coursework can satisfy degree requirements in four academic years. Students without a solid foundation and those who cannot devote full time to academics should plan on a slower pace.

**Bachelor's Curricula - Civil Engineering Option**

<table>
<thead>
<tr>
<th>Semester I</th>
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<tbody>
<tr>
<td>ENC 1101</td>
<td>Freshman English I</td>
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</tr>
<tr>
<td>MAC 2281</td>
<td>Engineering Calculus I</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>CHM 2045</td>
<td>General Chemistry I</td>
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<tr>
<th>Semester II</th>
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<tbody>
<tr>
<td>ENC 1102</td>
<td>Freshman English II</td>
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</tr>
<tr>
<td>MAC 2282</td>
<td>Engineering Calculus II</td>
<td>3</td>
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<tr>
<td>CHM 2045</td>
<td>General Chemistry II</td>
<td>3</td>
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<tr>
<td>CHM 2045L</td>
<td>General Chemistry I Lab</td>
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<tr>
<td>PHY 2048</td>
<td>General Physics I</td>
<td>3</td>
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<tr>
<td>PHY 2048L</td>
<td>General Physics I Lab</td>
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<tr>
<td>Social Science Elective</td>
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<th>Summer Term</th>
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<tbody>
<tr>
<td>ENG 2210</td>
<td>Computer Tools for Engineers</td>
<td>3</td>
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<td>Social Science Elective</td>
<td>3</td>
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<tr>
<td>Historical Perspectives Elective</td>
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<tr>
<th>Semester III</th>
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<tbody>
<tr>
<td>PHY 2049</td>
<td>General Physics II</td>
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<td>General Physics II Lab</td>
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<tr>
<td>MAC 2283</td>
<td>Engineering Calculus III</td>
<td>3</td>
<td></td>
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<tr>
<td>EGN 3311</td>
<td>Statics</td>
<td>3</td>
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<tr>
<td>Historical Perspectives Elective</td>
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<tr>
<td>Fine Arts Elective</td>
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<th>Semester IV</th>
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<tbody>
<tr>
<td>MAP 2302</td>
<td>Differential Equations</td>
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<tr>
<td>EGN 3321</td>
<td>Dynamics</td>
<td>3</td>
<td></td>
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<tr>
<td>EGN 3343</td>
<td>Thermodynamics I</td>
<td>3</td>
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<tr>
<td>EGN 3443</td>
<td>Engineering Statistics</td>
<td>3</td>
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<tr>
<td>EGN 3365</td>
<td>Materials</td>
<td>3</td>
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<th>Semester V</th>
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<tr>
<td>EGN 3353</td>
<td>Fluid Mechanics</td>
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<tr>
<td>EGN 3331</td>
<td>Mechanics of Materials</td>
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<td>EGN 3331L</td>
<td>Mechanics of Materials Lab</td>
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<td>EGN 3373</td>
<td>Intro to Electrical Systems</td>
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<tr>
<td>TTE 4004</td>
<td>Transportation</td>
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<td>ALAMEA Perspective Elective</td>
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<tr>
<th>Semester VI</th>
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<tbody>
<tr>
<td>CES 3102</td>
<td>Structures</td>
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<tr>
<td>CWR 4202</td>
<td>Hydraulics</td>
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<td>ENV 3001</td>
<td>Environmental Engineering</td>
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<tr>
<td>GLY 3850</td>
<td>Geology for Engineers</td>
<td>3</td>
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<td>EGN 3613</td>
<td>Engineering Economy</td>
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<td>ENC 4931</td>
<td>Communication for Engineers</td>
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<table>
<thead>
<tr>
<th>Semester VII</th>
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<td>CES 4605</td>
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<td>CES 4702</td>
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<td>CEG 4011</td>
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*Approved General Education Requirements

**Civil Engineering Concentration Requirements**
(A student must complete a minimum of 9 hours, with at least 2 courses from one group.)

**Water Resources**
- ENV 4502 Environmental Unit Operations | 3
- ENV 4101 Air Pollution Control | 3
- CWR 4103 Water Resources Engineering | 3
**Geotechnical/Transportation**

- **CEG 4012** Soil Mechanics II 3
- **TTE 4005** Transportation Engineering II 3
- **CGN 4851** Concrete Construction Materials 3
- **CES 4141** Matrix Structural Analysis 3
- **ENV 4101** Air Pollution Control 3

**Materials**

- **EGN 4366** Materials Engineering II 3
- **EMA 4324** Corrosion of Engineering Materials 3
- **CGN 4851** Concrete Construction Materials 3

**Structural**

- **CES 4141** Matrix Structural Analysis 3
- **CES 4820** Timber & Masonry Design 3
- **CES 4561** Computer Aided Structural Design 3
- **CGN 4851** Concrete Construction Materials 3
- **EMA 4324** Corrosion of Engineering Materials 3
- **CE 4720** Capstone Structural/Materials Design 3
- **CE 4740** Capstone Structural/Geotechnical Design 3

**Environmental Engineering Concentration Within Civil Engineering**

**Semester I**

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<thead>
<tr>
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<td>ENC 1101</td>
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<td>MAC 2281</td>
<td>Engineering Calculus I</td>
<td>3</td>
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<tr>
<td>CHM 2045</td>
<td>General Chemistry</td>
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<tr>
<td>EGS 1113</td>
<td>Introduction to Design Graphics</td>
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<tr>
<td>CHM 2046</td>
<td>General Chemistry II</td>
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**Summer Term**

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**Semester III**

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<td>EGN 3311</td>
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<td>CHM 2200</td>
<td>Organic Chemistry</td>
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**Semester IV**

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<tr>
<td>MAP 2302</td>
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**Semester V**

- **EGN 3343** Thermodynamics I 3
- **EGN 3373** Introduction to Electrical Systems I 3
- **EGN 3443** Engineering Statistics I 3
- **EGN 3365L** Materials Engineering I 3

**Semester VI**

- **EGN 3321** Dynamics 3
- **EGN 3331** Mechanics of Materials 3
- **EGN 3331L** Mechanics of Materials Lab 1
- **EGN 3353C** Basic Fluid Mechanics 3
- **ENV 3001** Environmental Engineering 3
- **ALAMEA Perspectives Elective** 3

**Semester VII**

- **EGN 4366** Materials Engineering II 3
- **EGN 4324** Corrosion of Engineering Materials 3
- **EGN 4324** Corrosion of Engineering Materials 3
- **E 4720** Capstone Structural/Materials Design 3
- **E 4740** Capstone Structural/Geotechnical Design 3

**Semester VIII**

- **CWR 4202** Hydraulics 3
- **ENV 4502** Environmental Unit Operation 3
- **EGN 3613** Engineering Economy 3
- **E 3023** Introduction to Process Engineering 3
- **ENV 4004** Environmental Engineering Lab 1
- **TTE 4004** Transportation 3

**Prerequisites (State Mandated Common Prerequisites)**

- Complete the A.A. degree at the community college. Some courses required for the major may also meet General Education Requirements thereby transferring maximum hours to the university. If a student wishes to transfer without an A.A. degree and have fewer than 60 semester hours of acceptable credit, the student must meet the university's entering freshman requirements including ACT or SAT test scores, GPA, and course requirements.

- The following are transferable courses from the Community College that will be accepted in the Math/Science/Engineering areas:

  **Math**

<table>
<thead>
<tr>
<th>Course</th>
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<td><strong>MAC 2311</strong></td>
<td><strong>MAC 2282</strong></td>
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<tr>
<td><strong>MAC 2312</strong></td>
<td><strong>MAC 2283</strong></td>
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<tr>
<td><strong>MAP 2302</strong></td>
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  **Chemistry**

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<tr>
<td><strong>CHM 1045</strong></td>
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<tr>
<td><strong>PHY 2049</strong></td>
<td><strong>PHY 2049L</strong></td>
<td>3</td>
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- **Approved General Education Requirements**

  *Fine Arts Elective* 3
  *MW/MI* 3

- **ALAMEA Perspectives Elective** 3

**Civil Engineering Capstone Design Requirements**

A student must complete the capstone design course in his/her area of concentration.
Three undergraduate degree tracks are offered within Computer Science and Engineering. These tracks are Computer Engineering, Computer Science and Information Systems, which leads to the Bachelor of Science in Computer Engineering, in Computer Science and in Information Systems respectively.

The Computer Engineering track emphasizes the application of engineering principles to the design of computer hardware and software. While all department tracks provide coverage of both computer hardware and software, this track allocates additional time to issues of computer architecture and hardware design. Students in this program also acquire a broad background in engineering science through the study of the engineering core.

The Computer Science track focuses on the theory of computation and computer organization. Additional course work in programming languages, algorithms, software engineering, and a wide range of electives supplement the core coverage of hardware and software.

The Information Systems track combines a basic coverage of hardware and software with a core of business related courses and additional course work in areas such as networks and database. The emphasis in this track is on the application of computing.

Graduates from these programs follow fruitful careers in either scientific or business application’s of computers, as well as in the design of computer systems. They are often involved in the systems level definition of information processing complexes for both manufacturers of computers and for users. A wide and expanding variety of design and applications opportunities characterize this field. The rapid growth and continual change within this field makes it essential for students to acquire a broad foundation in applied mathematics and the physical sciences, and to develop communication skills and to become familiar with the domains of potential computer application in the Humanities and Social Sciences. Research and development opportunities as a computer scientist and engineer, often following graduate education, are present in the areas of computer architecture and VLSI design, artificial intelligence, software engineering, digital data communications, multimedia, robotics, database, networks, user interface, fault-tolerant computing and testing, computer graphics, image processing and computer vision, and simulation.

The schedules which follow indicate how a serious, well prepared student can devote full time to coursework can satisfy degree requirements in four academic years. Students without a solid foundation and those who cannot devote full time to academics should plan on a slower pace.

Bachelor of Science in Computer Science Curriculum

This program is under revision. Courses indicated with XXXX rather than course numbers will be submitted for approval during 1998-99. See your academic advisor for additional information.

### Semester I

<table>
<thead>
<tr>
<th>Course</th>
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<tr>
<td>MAC 2281 Engineering Calculus I</td>
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<tr>
<td>ENC 1101 Freshman English I</td>
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<td>ENC 1102 Freshman English II</td>
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<td>EGN 2210 Computer Tools</td>
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<td>PHY 2049 Eng. Physics II</td>
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<tr>
<td>COT 3100 Intro. to Discrete Structures</td>
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<tr>
<td>COP XXXX Program Design</td>
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<td>CDA XXXX Computer Logic Design</td>
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<td>CDA XXXXL Computer Logic Design Lab</td>
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<tr>
<td>EGN 4450 Linear Systems</td>
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<tr>
<td>STA 4442 Intro to Probability</td>
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### Semester V

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<td>COP 4600 Operating Systems</td>
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<td>CS&amp;E Theory Elective</td>
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<td>*Science Elective</td>
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<td>*Social Science Elective</td>
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### Semester VI

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<td>CS&amp;E Software Elective</td>
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<td>Major Works</td>
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<td>Computer Science Electives</td>
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<tr>
<td>*Approved General Education Requirements</td>
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### Prerequisites (State Mandated Common Prerequisites)

Complete the A.A. degree at the community college. Some courses required for the major may also meet General Education Requirements thereby transferring maximum hours to the university. If a student wishes to transfer without an A.A. degree and have fewer than 80 semester hours of acceptable credit, the student must meet the university’s entering freshman requirements including ACT or SAT test scores, GPA, and course requirements.

Students should complete the following prerequisite courses listed below at the lower level prior to entering the University. If these courses are not taken at the community college, they must be completed before the degree is granted. Unless stated otherwise, a grade of “C” is the minimum acceptable grade.

### Fortran

<table>
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<th>Course</th>
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<tr>
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<tr>
<td>USF EGN 2210</td>
<td>C/C</td>
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This is a limited access program involving special admissions requirements. Please be aware of the immunization, foreign language, continuous enrollment policies of the university, and qualitative standards required.
The following are transferable courses from the Community College that will be accepted in the Math/Science/Engineering areas:

### Math
- **Calculus**
  - **USF**
  - MAC 2281 MAC 2311 (3)
  - MAC 2282 MAC 2312 (3)
  - MAC 2283 MAC 2313 (3)

- **Differential Equations**
  - MAP 2302 MAP 2302 (3)

### Physics
- **USF**
  - PHY 2048 PHY 2048 (3)
  - PHY 2048L PHY 2048L (1)
  - PHY 2049 PHY 2049 (3)
  - PHY 2049L PHY 2049L (1)

### Science Electives (6)
- Fortran
  - **USF**
  - EGN 2210 COP 2202 (3)

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### Bachelor of Science in Computer Engineering Curriculum

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#### Semester I
- MAC 2281 Engr. Calculus I 3
- ENC 1101 Freshman English I 3
- EGN 3000 Foundations of Engineering 1
- EGN 3000 Foundations of Engineering Lab 2
- *Social Science Elective 3
- *Historical Perspectives Elective 3

#### Semester II
- MAC 2282 Engr. Calculus II 3
- ENC 1102 Freshman English II 3
- PHY 2048 Eng. Physics I 3
- PHY 2048L Eng. Physics I Lab 1
- CHM 2045 General Chemistry I 3

#### Summer Term
- MAC 2283 Engr Calculus III 3
- PHY 2049 Eng. Physics II 3
- PHY 2049L Eng. Physics II Lab 1
- EGN 2210 Computer Tools 3

#### Semester III
- EGN 3311 Statics 3
- COT 3100 Intro. to Discrete Structures 3
- CDA XXXX Computer Organization 3
- COP XXXX Program Design 3
- *Science Elective 3

#### Semester IV
- EEL 4651 Data Structures 3
- EGN 3443 Engineering Statistics 3
- EGN 3321 Dynamics 3

- EGN 3343 Thermodynamics 3
- CDA XXXX Computer Logic Design 3
- CDA XXXXL Computer Logic Design Lab 1

#### Semester V
- EGN 3373 Electrical Systems I 3
- EGN 3365L Materials I 3
- MAP 4302 Differential Equations 3
- CDA XXXX Computer Architecture 3
- CS&E Hardware Elective 4

#### Semester VI
- EGN 4450 Linear Systems 2
- COP 4600 Operating Systems 3
- CS&E Theory Elective 3
- CS&E Hardware Elective 3
- *Science Elective 3
- *Fine Arts Elective 3

#### Semester VII
- ENC 4931 Engr. Communications 3
- CS&E Elective 3
- *Historical Perspectives Elective 3
- *ALAMEA Perspective Elective 3

#### Semester VIII
- CIS 4910 Senior Project 2
- CIS 4250 Ethical Issues (MW/MI) 3
- CS&E Elective 8
- Major Works 3
- *Approved General Education Requirements 16

#### Prerequisites (State Mandated Common Prerequisites)

- Complete the A.A. degree at the community college. Some courses required for the major may also meet General Education Requirements thereby transferring maximum hours to the university. If a student wishes to transfer without an A.A. degree and have fewer than 60 semester hours of acceptable credit, the student must meet the university’s entering freshman requirements including ACT or SAT test scores, GPA, and course requirements.

The following are transferable courses from the Community College that will be accepted in the Math/Science/Engineering areas:

### Math
- **USF**
  - MAC 2281 MAC 2311 (3)
  - MAC 2282 MAC 2312 (3)
  - MAC 2283 MAC 2313 (3)

- **Differential Equations**
  - MAP 2302 MAP 2302 (3)

### Physics
- **USF**
  - PHY 2048 PHY 2048 (3)
  - PHY 2048L PHY 2048L (1)
  - PHY 2049 PHY 2049 (3)
  - PHY 2049L PHY 2049L (1)

- **Fortran**
  - **USF**
  - EGN 2210 COP 2202 (3)

This is a limited access program involving special admissions requirements. Please be aware of the immunization, foreign language, continuous enrollment policies of the university, and qualitative standards required.
Engineering Admissions Requirements

Transfer students must have completed the equivalent USF Engineering Calculus sequence with a 2.0 GPA; must have completed one year of equivalent USF General Physics and Chemistry courses with a minimum of 2.0 GPA; must have an overall GPA of 2.0 or better.

Bachelor of Science in Information Systems Curriculum

This program is under revision. Courses indicated with XXX rather than course numbers will be submitted for approval during 1998-99. See your academic advisor for additional information.

Semester I
MAC 2281 or 2233 Calculus I 3
ENC 1101 Freshman English I 3
ACG 2021 Principles Accounting I 3
*Social Science Elective 3
*Historical Perspective Elective 3

Semester II
MAC 2282 or 2234 Calculus II 4
ENC 1102 Freshman English II 3
PHY 2048 or 2053 Eng. Physics I 3
PHY 2048L or 2053L Eng. Physics I Lab 1
EGN 2210 Computer Tools 3

Summer Term
PHY 2049 or 2054 Eng. Physics II 3
PHY 2049L or 2054L Eng. Physics II Lab 1
ECO 2023 Microeconomics 3
STA 2023 Intro to Statistics 3

Semester III
CDA XXXX Computer Organization 3
COT 3100 Intro Discrete Str 3
COP XXXX Program Design 3
ECO 2013 Macroeconomics 3

Semester IV
EEL 4851 Data Structures 3
MAN 3023 Principles of Management 3
*Historical Perspectives Elective 3
*Science Elective 3
*Social Science Elective 3

Semester V
COP 4600 Operating Systems 3
EGN 4450 Linear Systems 2
ENC 4931 Engr. Communications 3
EGN 3613 Engineering Economics 3
CS&E Software Elective 3

Semester VI
CEN 4020 Software Engineering 3
*Fine Arts Elective 3
CS&E Software Elective 3
CS&E Elective 3

Semester VII
*ALAMEA Perspective Elective 3
CS&E Theory Elective 3
CS&E Software Elective 3
CS&E Elective 3

Semester VIII
CEN XXXX Software System Development 3
CIS 4250 Ethical Issues 3
Major Works 3
CS&E Elective 3

*Approved General Education Requirements

Prerequisites (State Mandated Common Prerequisites)

Complete the A.A. degree at the community college. Some courses required for the major may also meet General Education Requirements thereby transferring maximum hours to the university. If a student wishes to transfer without an A.A. degree and have fewer than 60 semester hours of acceptable credit, the student must meet the university’s entering freshmen requirements including ACT or SAT test scores, GPA, and course requirements.

The following are transferable courses from the Community College that will be accepted in the Math/Science/Engineering areas:

Math
- Calculus
- USF
  - MAC 2233 MAC 2233 (3)
  - MAC 2234 MAC 2234 (3)

Physics
- General
  - USF
    - PHY 2053 PHY 2053 (3)
    - PHY 2053L PHY 2053L (1)
    - PHY 2054 PHY 2054 (3)
    - PHY 2054L PHY 2054L (1)

Business Electives (6)

Business Courses
- USF
  - ACG 2001 ACG 2001 (3)
  - ECO 2013 ECO 2013 (3)
  - ECO 2023 ECO 2023 (3)

Fortran
- USF
  - EGN 2210 COP 2202 (3)
  - COP 2120 COP 2120 (3)

Cobol
  - COP 2120 COP 2120 (3)

This is a limited access program involving special admissions requirements. Please be aware of the immunization, foreign language, continuous enrollment policies of the university, and qualitative standards required.

Engineering Admissions Requirements

Transfer students must have completed the equivalent USF Engineering Calculus sequence with a 2.0 GPA; must have completed one year of equivalent USF General Physics and Chemistry courses with a minimum of 2.0 GPA; must have an overall GPA of 2.0 or better.

4. Electrical Engineering

Students pursuing the Bachelor of Science in Electrical Engineering program take designated coursework in network analysis, electronics, communications, electromagnetic theory, control systems, microelectronics and microprocessors. This coursework is supplemented by electives in many specialized areas of electrical engineering.

Students completing this program normally pursue industrial careers in the power, electrical, electronic, or information industries or in related governmental laboratories and public service agencies. The electrical graduate may apply his/her knowledge to such diverse areas as television, communications, remote guidance, sensing (of people, vehicles, weather, crops, etc.), automation, computer and information systems, electric power generation and transmission, electrically propelled transportation, etc. The graduate may do this by performing needed engineering functions related to research and development (often requires an advanced degree), design, production, operation, sales, or management of these products/services.

The schedule which follows indicates how a serious, well prepared student who can devote full time to coursework can satisfy degree requirements in four academic years. Students without a solid foundation and those who cannot devote full
time to academics should plan on a slower pace. A minimum
departmental GPA of 2.0 is required for graduation.

Bachelor's Curriculum - Electrical Engineering

Semester I
EN 1101  Freshman English I  3
CHM 2045  General Chemistry I  3
CHM 2045L General Chemistry Lab I  1
MAC 2281  Engineering Calculus I  3
EGN 3000  Foundations of Engineering  1
EGN 3000L Foundations of Engineering Lab  2
**Social Science Elective  3

Semester II
EN 1102  Freshman English II  3
CHM 2046  General Chemistry II  3
PHY 2048  General Physics I  3
PHY 2048L General Physics I Lab  1
MAC 2282  Engineering Calculus II  3
*EGN 2210  Computer Tools for Engineers  3

Semester III
PHY 2049  General Physics II  3
PHY 2049L General Physics II Lab  1
MAC 2283  Engineering Calculus III  3
EGN 3613  Engineering Economy I  3
*EGN 3311  Statistics I  3
**Historical Perspective Elective  3

Semester IV
MAP 2302  Differential Equations  3
PHY 3101  Modern Physics  3
*EGN 3373  Introduction to Electrical Systems I  3
*EGN 3443  Engineering Statistics I  3
*EGN 3343  Thermodynamics I  3
**Social Science Elective  3

Summer Term
EGN 3375  Introduction to Electrical Systems III  3
ENC 4931  Engineering Communications  3
EGN 3365L Materials Engineering  3

Semester V
EGN 4450  Intro. to Linear Systems  2
EEL 4936  Intro to Electromagnetics  3
EEL 3100  Network Analysis & Design  3
EEL 3302  Electronics I  3
ELR 4937  Wireless Cir Sys Des Lab  2
*ALAMEA Perspective Elective  3

Semester VI
EEL 4102  Linear Systems Analysis  3
EEL 4351  Semiconductor Devices  3
EEL 4705  Logic Design  3
EEL 4705L Logic Design Lab  1
EEL 4163  Computer Aided Design  2
ELR 3301L Lab I (Circuits)  1
*MVM/M  3

Semester VII
EEL 4744  Microprocessors  3
EEL 4743L Microprocessors Lab  1
ELR 3302L Lab II (Electronics)  1
EEL 4906  Intro. to Engr. Design  2
*Fine Arts Elective  3
Approved Technical Elective  3

Semester VIII
EEL 4936  Design Project  3
EGN 4831  Technology in Society (MWWI Engr.)  3
Approved Technical Elective  3

Approved Technical Elective  3
**Historical Perspectives Elective  3
15

*Required for admissions to the Electrical Engineering Department
**Approved General Education Requirements

Prerequisites (State Mandated Common Prerequisites)
Complete the A.A. degree at the community college. Some courses required for the major may also meet General Education Requirements thereby transferring maximum hours to the university. If a student wishes to transfer without an A.A. degree and have fewer than 60 semester hours of acceptable credit, the student must meet the university's entering freshman requirements including ACT or SAT test scores, GPA, and course requirements.

The following are transferable courses from the Community College that will be accepted in the Math/Science/Engineering areas:

Math
- Calculus
  USF  MAC 2281  C/C  MAC 2311 (3)
  USF  MAC 2282  MAC 2312 (3)
  USF  MAC 2283  MAC 2313 (3)
- Differential Equations
  USF  MAC 2281  MAC 2311 (3)
- Statistics
  USF  MAC 2281  MAC 2311 (3)

Chemistry
- General
  USF  CHM 2045  CHM 1045 (3)
  USF  CHM 2045L CHM 1045L (1)
  USF  CHM 2046  CHM 1046 (3)
- Physics
  USF  PHY 2048  PHY 2048 (3)
  USF  PHY 2048L PHY 2048L (1)
  USF  PHY 2049  PHY 2049 (3)
  USF  PHY 2049L PHY 2049L (1)

Fortran
- USF  EEL 4936  C/C  EEL 2210  COP 2202 (3)

This is a limited access program involving special admissions requirements. Please be aware of the immunization, foreign language, continuous enrollment policies of the university, and qualitative standards required.

Engineering Admissions Requirements
Transfer students must have completed the equivalent USF Engineering Calculus sequence with a 2.0 GPA; must have completed one year of equivalent USF General Physics and Chemistry courses with a minimum of 2.0 GPA; must have an overall GPA of 2.0 or better.

5. Industrial and Management Systems Engineering
Students pursuing the Bachelor of Science in Industrial Engineering degree program take designated, specialized coursework in industrial processes, work analysis, production control, facilities design, operations research, human factors, computer simulation, quality control, and robotics and automation. This coursework is supplemented by engineering electives and comprehensive industrial engineering design projects.
Students completing this program are prepared for graduate study or for careers in a broad range of industries, business, and public service areas. The strength of industrial engineering lies, in part, in its breadth and the applicability of its common body of knowledge in a wide variety of enterprises. Students may be involved in traditional areas of manufacturing and production, or state-of-the-art functions in automation and robotics. The same engineering principles are also applied to business organizations, service delivery systems, and government administration.
The schedule which follows indicates how a serious, well-prepared student who can devote full time to coursework can satisfy degree requirements in four academic years. Students without a solid foundation and those who cannot devote full time to academics should plan on a slower pace.

**Bachelor's Curriculum Industrial and Management Systems Engineering**

**Semester I**
- ENC 1101 Freshman English I 3
- MAC 2281 Engineering Calculus I 3
- CHM 2045 General Chemistry I 3
- EGS 1113 Introduction to Design Graphics 3
- EGN 3000 Foundations of Engineering 1
- EGN 3000L Foundations of Engineering Lab 2
- *Fine Arts Elective 3

**Semester II**
- ENC 1102 Freshman English II 3
- MAC 2282 Engineering Calculus II 3
- CHM 2046 General Chemistry II 3
- CHM 2045L General Chemistry I Lab 1
- PHY 2048 General Physics I 3
- PHY 2048L General Physics I Lab 1
- EGN 2210 Computer Tools for Engineers 3

**Semester III**
- PHY 2049 General Physics II 3
- PHY 2049L General Physics II Lab 1
- MAC 2283 Engineering Calculus III 3
- EGN 3365L Materials Engineering I 3
- EGN 3311 Statics 3
- EGN 3443 Engineering Statistics I 3

**Semester IV**
- MAP 2302 Differential Equations 3
- EGN 3373 Introduction to Electrical Systems I 3
- EGN 3321 Dynamics 3
- EGN 3343 Thermodynamics I 3
- *Social Science Elective 3

**Summer Term**
- ENC 4931 Engineering Communications 3
- ENG 3613 Engineering Economy 3
- EGN 4450 Introduction to Linear Systems 2
- *Science Elective 3

**Semester V**
- EIN 4312L Work Analysis 3
- EGN 3375 Introduction to Electrical Systems III 3
- EIN 4411L Manufacturing Processes 3
- EIN 4933 Managerial Cost Accounting 3
- ESI 4312 Deterministic O.R. 3

**Semester VI**
- ESI 4313 Probabilistic O.R. 3
- EIN 4313L Human Factors 3
- EIN 4601 Automation and Robotics 3
- EIN 4333 Production Control 3
- *Historical Perspectives Elective 3

**Semester VII**
- ESI 4911 Senior Project 2
- ESI 4224 Design of Experiments 3
- ESI 5423 Industrial Systems Simulation 3
- EIN 4364L Facilities Design I 3
- *Historical Perspectives Elective 3

**Semester VIII**
- EIN 4365L Facility Design II (MW/MI) 3
- ESI 4221 Industrial Statistics & Quality Control 3
- *ALAMEA Perspectives Elective 3

*Approved General Education Requirements

**Prerequisites (State Mandated Common Prerequisites)**
- Complete the A.A. degree at the community college. Some courses required for the major may also meet General Education Requirements thereby transferring maximum hours to the university. If a student wishes to transfer without an A.A. degree and have fewer than 60 semester hours of acceptable credit, the student must meet the university's entering freshman requirements including ACT or SAT test scores, GPA, and course requirements.

The following are transferable courses from the Community College that will be accepted in the Math/Science/Engineering areas:

**Math**
- Calculus
  - USF C/C
  - MAC 2281 MAC 2311 (3)
  - MAC 2282 MAC 2312 (3)
  - MAC 2283 MAC 2313 (3)

**Chemistry**
- General
  - USF C/C
  - CHM 2045 CHM 1045 (3)
  - CHM 2045L CHM 1045L (1)
  - CHM 2046 CHM 1046 (3)

**Physics**
- General
  - USF C/C
  - PHY 2048 PHY 2048 (3)
  - PHY 2048L PHY 2048L (1)
  - PHY 2049 PHY 2049 (3)
  - PHY 2049L PHY 2049L (1)

**Graphics**
- USF C/C
  - EGS 1113 EGS 1111 (3)

**Fortran**
- USF C/C
  - EGN 2210 COP 2202 (3)

This is a limited access program involving special admissions requirements. Please be aware of the immunization, foreign language, continuous enrollment policies of the university, and qualitative standards required.

**Engineering Admissions Requirements**
- Transfer students must have completed the equivalent USF Engineering Calculus sequence with a 2.0 GPA; must have completed one year of equivalent USF General Physics and Chemistry courses with a minimum of 2.0 GPA; must have an overall GPA of 2.0 or better.

**6. Mechanical Engineering**
- Students pursuing the Bachelor of Science in Mechanical Engineering program take coursework in thermodynamics and heat transfer; instrumentation and measurements; energy conversion systems, solid and fluid mechanics, dynamics, machine analysis and design, mechanical design, and controls. This is supplemented by elective coursework in such areas as power plant analysis, refrigeration and air conditioning, mechanical design, advanced mechanics, heat transfer, robotics, propulsion, vibrations, computer-aided design, manufacturing, composite materials, and aerodynamics.
- Students completing this program normally enter careers in a wide range of industries which either produce mechanical products or rely on machines, mechanical devices and systems to produce electricity, petroleum products, foods, textiles, building materials, etc. Mechanical Engineering graduates may follow careers in such fields as transportation, power...
generation, manufacturing, instrumentation, automatic control, machine design, construction, refrigeration, heating and air conditioning, aerospace, defense and all the process industries (foods, textiles, petrochemicals, pharmaceuticals, etc.). There are abundant career opportunities in a wide range of industries because mechanical equipment is required in every aspect of industrial production.

**Bachelor's Curriculum**  
**Mechanical Engineering**

<table>
<thead>
<tr>
<th>Semester I</th>
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</thead>
<tbody>
<tr>
<td>ENC 1101 Freshman English I</td>
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<tr>
<td>MAC 2281 Engineering Calculus I</td>
<td>3</td>
</tr>
<tr>
<td>CHM 2045 General Chemistry I</td>
<td>3</td>
</tr>
<tr>
<td>CHM 2045L Chemistry Lab I</td>
<td>1</td>
</tr>
<tr>
<td>EGS 1113 Intro. to Design Graphics</td>
<td>3</td>
</tr>
<tr>
<td>EGN 3000 Foundations of Engineering</td>
<td>1</td>
</tr>
<tr>
<td>EGN 3000 Foundations of Engineering Lab</td>
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<table>
<thead>
<tr>
<th>Semester II</th>
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<tbody>
<tr>
<td>ENC 1102 Freshman English II</td>
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<tr>
<td>CHM 2046 General Chemistry II</td>
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<td>CHM 2046L General Chemistry II Lab</td>
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<tr>
<td>PHY 2048 General Physics I</td>
<td>3</td>
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<td>PHY 2048L General Physics I Lab</td>
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*Historical Perspectives Elective | 3 |

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<tr>
<th>Summer Term</th>
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<tbody>
<tr>
<td>MAC 2283 Engineering Calculus III</td>
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<tr>
<td>PHY 2049 General Physics II</td>
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<tr>
<td>PHY 2049L General Physics II Lab</td>
<td>1</td>
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<tr>
<td>EGN 2210 Computer Tools for Engineers</td>
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<table>
<thead>
<tr>
<th>Semester III</th>
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<tbody>
<tr>
<td>EGN 3311 Statics</td>
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<tr>
<td>EGN 3443 Engineering Statistics</td>
<td>3</td>
</tr>
<tr>
<td>MAP 2302 Differential Equations</td>
<td>3</td>
</tr>
<tr>
<td>EGN 3343 Thermodynamics I</td>
<td>3</td>
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<tr>
<td>EGN 3373 Introduction to Electrical Systems I</td>
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<table>
<thead>
<tr>
<th>Semester IV</th>
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</thead>
<tbody>
<tr>
<td>EGN 4450 Introduction to Linear Systems</td>
<td>2</td>
</tr>
<tr>
<td>EGN 3321 Dynamics</td>
<td>3</td>
</tr>
<tr>
<td>EML 4106 Thermal Systems and Economics</td>
<td>3</td>
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<td>EGN 3365L Materials Engineering I</td>
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</table>
*Social Science Electives | 6 |

<table>
<thead>
<tr>
<th>Semester V</th>
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<tbody>
<tr>
<td>EGN 3433 System Dynamics</td>
<td>3</td>
</tr>
<tr>
<td>EML 4041 Computer Methods</td>
<td>3</td>
</tr>
<tr>
<td>EML 3262 Kinematics and Dynamics of Machinery</td>
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</tr>
<tr>
<td>EML 3500 Machine Analysis and Design I</td>
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*Historical Perspectives Elective | 3 |
*ALAMEA Perspectives Elective | 3 |

<table>
<thead>
<tr>
<th>Semester VI</th>
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<tbody>
<tr>
<td>EML 4501 Machine Design</td>
<td>3</td>
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<tr>
<td>EML 3701 Fluid Systems</td>
<td>3</td>
</tr>
<tr>
<td>ENC 4931 Engineering Communications</td>
<td>3</td>
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</table>
*Fine Arts Elective | 3 |
MW/MI | 3 |

<table>
<thead>
<tr>
<th>Semester VII</th>
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<tbody>
<tr>
<td>EML 4142 Heat Transfer I</td>
<td>3</td>
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<tr>
<td>EML 3303 Mechanical Engineering Lab I</td>
<td>3</td>
</tr>
<tr>
<td>EML 4551 Capstone Design (MW/MI)</td>
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</tbody>
</table>
Approved Technical Elective | 3 |
Approved Technical Elective | 3 |

<table>
<thead>
<tr>
<th>Semester VIII</th>
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</thead>
<tbody>
<tr>
<td>EML 4302 Mechanical Engineering Lab II</td>
<td>3</td>
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</tbody>
</table>

**Prerequisites (State Mandated Common Prerequisites)**
Complete the A.A. degree at the community college. Some courses required for the major may also meet General Education Requirements thereby transferring maximum hours to the university. If a student wishes to transfer without an A.A. degree and have fewer than 60 semester hours of acceptable credit, the student must meet the university's entering freshman requirements including ACT or SAT test scores, GPA, and course requirements.

The following are transferable courses from the Community College that will be accepted in the Math/Science/Engineering areas:

**Math**
- Calculus<br>  - USF C/C<br>  - MAC 2281 MAC 2311 (3)<br>  - MAC 2282 MAC 2312 (3)<br>  - MAC 2283 MAC 2313 (3)<br>- Differential Equations<br>  - MAP 2302 MAP 2302 (3)<br>

**Chemistry**
- General<br>  - USF C/C<br>  - CHM 2045 CHM 1045 (3)<br>  - CHM 2045L CHM 1045L (1)<br>  - CHM 2046 CHM 1046 (3)<br>  - CHM 2046L CHM 1046L (1)<br>

**Physics**
- USF C/C<br>  - PHY 2048 PHY 2048 (3)<br>  - PHY 2048L PHY 2048L (1)<br>  - PHY 2049 PHY 2049 (3)<br>  - PHY 2049L PHY 2049L (1)<br>

**Graphics**
- USF C/C<br>  - EGS 1113 EGS 1111 (3)<br>

**Fortran**
- USF C/C<br>  - EGN 2210 COP 2202 (3)<br>

This is a limited access program involving special admissions requirements. Please be aware of the immunization, foreign language, continuous enrollment policies of the university, and qualitative standards required.

**Engineering Admissions Requirements**
Transfer students must have completed the equivalent USF Engineering Calculus sequence with a 2.0 GPA; must have completed one year of equivalent USF General Physics and Chemistry courses with a minimum of 2.0 GPA; must have an overall GPA of 2.0 or better.

**College Regulations**

1. **Humanities and Social Science Requirements**
   While the Engineering undergraduate student is expected to complete certain requirements during the first two years of study which are directed toward the humanities and social sciences, and which are fulfilled by the completion of the General Education requirements of the University, the College of Engineering expects more of its prospective engineering graduates than this minimum. The engineer must not only be a technically competent individual, but must also be a person who can understand, adjust and contribute to the social environment.

   Students who transfer from a State of Florida community college with an Associate of Arts degree and who have met that...
college's General Education Requirement will find their General Education coursework satisfies the University General Education Requirements. All Engineering students must complete the USF Exit Requirements. The Literature and Writing portion can be met by completing ENC 4931 Communication for Engineers.

2. English Requirement
Students who have been admitted to the College of Engineering may be required to take an examination in order to evaluate their preparedness in the use and understanding of the English language. The examination will be administered by the faculty of the University's English program.

Students evidencing an English deficiency will be required to initiate the necessary corrective programs, with the assistance of their advisers. It is recognized that such deficiencies can exist even though a student has met the University’s minimum English requirements. Correction of any deficiency must commence the term after a student has been notified and must be completed prior to recommendation of the student for graduation by the faculty of the College.

See Continuation and Graduation Requirements below for minimum grade requirements.

3. Mathematics Requirement
Students who are pursuing an engineering program are expected to acquire a facility for the rapid and accurate solution of problems requiring the use of mathematics. This requirement includes the ability to translate physical situations into mathematical models. Students evidencing a lack of manipulative ability or of the ability to apply mathematics will be required to take remedial coursework in engineering analysis and problem solving that is over and above their regular degree requirements. Faculty of the College who encounter students who are deficient in their mathematical ability will refer such cases to the Advising Office.

4. Continuation and Graduation Requirements
The curricula for the programs offered by various departments of the College of Engineering may be divided into four categories: a) General Education (Non-Technical Requirements); b) Basic Science Requirements (i.e., Math, Chemistry and Physics); c) Engineering Core Requirements; d) Program Specialization Requirements. All undergraduate students in the College of Engineering must maintain the minimum grade-point average (GPA) of 2.0 for each category and a 2.0 GPA for all engineering courses attempted. In no case will the minimum GPA for a category be less than 2.0. It is the student’s responsibility to make sure she/he meets all departmental requirements. In addition to the completion of the coursework and/or project requirements of the respective program of the College, students must be recommended for their degrees by the faculty of the College.

Students who do not maintain the required minimums of the program pursued in each category are ineligible for further registration in the College unless individually designed continuation programs are recommended by the student’s academic adviser and approved by the department chairperson and the Engineering Associate Dean for Academic Affairs. All students who are academically dismissed from the University will be denied readmission to the College of Engineering unless they meet admission requirements in effect at the time readmission is sought and are recommended for readmission by the department and the Associate Dean for Academic Affairs.

Students who register for a course three times without receiving a grade “D” or better (i.e., receive grades of W or F) will be denied further enrollment in the College of Engineering under written notification obtained from the department chairperson and the College Associate Dean for Academic Affairs.

Students pursuing College of Engineering degree programs are expected to take their courses on a graded basis (ABCDF). Exceptions require written approval of the department adviser prior to registration.

The College of Engineering requires that a student complete the Basic Science, Engineering Science and Specialization Requirements for the baccalaureate degree within seven years prior to the date of graduation. Any exceptions require approval of the department and Dean’s Office.

Each engineering student is required to complete the Application for Graduation - Check List and submit it to the College of Engineering Advising Office by the drop date of the term prior to the semester in which graduation is sought. Completion of this form is a requirement for graduation.

Effective fall of 1987 all students pursuing Bachelor of Science degree programs in Civil or Mechanical Engineering will be required to take the Fundamentals of Engineering Exam of the State Board of Professional Regulation at least one term prior to the term of anticipated graduation. Engineering students in other disciplines are strongly encouraged to do the same. (See the College Advising Office for applications and information.)

5. Transfer Credit
Transfer credit will be allowed by the USF College of Engineering when appropriate if the transferred course has been passed. In some cases credit for a course may be granted, but the hours accepted may be less than the hours earned at another school. While credit for work at other institutions may be granted subject to the conditions of the previous paragraph, a minimum of thirty semester hours of engineering coursework specified by the degree granting department is required for a baccalaureate degree.

FIVE-YEAR PROGRAM - LEADING TO BACHELORS AND MASTERS DEGREES

Students who, at the beginning of their senior year, are clearly interested in graduate study are invited to pursue a Five-Year Program of study leading simultaneously to the Bachelor of Science in Engineering or Engineering Science and Master of Science in Engineering or Engineering Science degrees. The keys to this program are:

1. A two-year research program extending through the fourth and fifth year.
2. The opportunity of taking some graduate courses during the fourth year and deferring the taking of some senior courses to the fifth year. The requirements of the combined degrees do not differ from those for the two degrees pursued separately.
3. Students apply for admission to this program through their adviser, who should be consulted when additional information is needed. General requirements include:

   1. Senior standing (90 credits) with at least 16 upper level engineering credits completed at the University of South Florida with a 3.0 GPA.
   2. A minimum score of 1000 on the verbal and quantitative portions of the Graduate Records Examination is expected.
   3. Above-average performance in the chosen Engineering program is expected.

Certificate Programs

Certificate in Biomedical Engineering

The Certificate in Biomedical Engineering provides students an opportunity to get an introduction to a rapidly developing field of study and to receive recognition for their endeavors. Students in the program must fulfill all the requirements for an Engineering undergraduate degree, such as Bachelor of Science in Chemical Engineering, and also meet the additional requirements of the Certificate program.
It is important to note that these engineering courses are not normally required for Medical School admission. That is, these courses will not also be included as a part of the B. S. degree, from an approved list.

One of the following (9 hrs. min.****)

- ECH 5746 Intro to Biomedical Engineering
- ECH 5747 Selected Topics in Chemical Engineering Biototechnology
- ECH 5748 Selected Topics in Biomedical Engineering (or other approved Engineering courses)

*These courses are typically required for Medical School admission. Note that there may be other required courses, such as a course in Human Genetics and the Organic Chemistry laboratories.

**These courses are not normally required for Medical School admission, but are often "highly recommended".

***This is a single semester course in Organic Chemistry. This course does not normally satisfy the admission requirements of most medical schools. It also does not count towards the Chemical Engineering degree (students must take the full year sequence).

****It is important to note that these engineering courses are above and beyond the courses necessary to satisfy the 136 hour requirement. That is, these courses will not also be countable as engineering electives towards the B. S. requirements for any of the departmental degree programs.

Certificate of Enhancement

The Certificate of Enhancement in (designated discipline) provides students an opportunity to gain an enhanced experience within their chosen field while pursuing an engineering degree and to permit them to receive recognition for the same requirements.

Requirements:

1. Enrolled in a Bachelor of Science degree program in a specified engineering discipline.
2. A minimum of 15 hours of additional elective courses, not included as a part of the B. S. degree, from an approved list. Courses must be taken on a letter-grade basis and a minimum of 9 hours must be in engineering courses.
3. A G.P.A. of 2.0 or greater for the additional hours.
4. The student must receive the engineering degree to receive the Certificate of Enhancement.

Please contact the appropriate department chairperson to be accepted in the program.

Computer Service Courses

These courses marked SC are specifically designed for the non-engineering student.

Recognizing that the general purpose digital computer has made significant contributions to the advancement of all elements of the academic community and that it will have an ever greater impact in the future, the College of Engineering offers several levels of credit coursework, both undergraduate and graduate, to serve students of all colleges in order that they may be prepared to meet the computer challenge.

Computer-oriented courses are offered in two broad categories: (1) those courses which are concerned with the operation, organization and programming of computers and computer systems from the viewpoint of examining the fundamental principles involved in computer usage; and (2) those courses which are concerned with computer applications to a variety of different disciplines, by means of user-oriented-languages such as FORTRAN, COBOL, BASIC, “C,” JAVA, VISUAL BASIC and ADA.

Students in engineering, the physical sciences, and mathematics must consult their adviser for suitable computer courses, since these courses are not acceptable to a number of degree programs.

College Facilities

Each of the departments has several modern well-equipped laboratories that are used for undergraduate teaching. Some examples of specialized equipment available are a scanning electron microscope, a gas chromatograph mass spectrometer, a 250,000 lb. material testing machine, several microprocessor based control systems, industrial robots, a low turbulence subsonic wind tunnel, computer numerical controlled machinery, metal organic chemical vapor deposition systems, and integrated circuits design workstations.

College Computing Facilities

The College of Engineering Computing Facilities are used to provide support for specialized engineering calculations above and beyond those which are available at the IBM based Central Florida Regional Data Center (CFRDC).

The College of Engineering operates a cluster of file and computer servers for students and faculty within the College. These consist of SUN servers and four Ardent multiprocessors mini-supercomputers. The networks provide access from offices and laboratories, computer rooms and dial-in facilities. All machines are configured for E-mail, and access to Internet.

In addition to the network facilities, the College operates open access P.C. labs. Three are available for undergraduate engineering students; a third smaller lab is reserved for graduate students and faculty.

The network facilities provide access either via Ethernet or the ISDN. Connections to offices, laboratories and classrooms are available on request, subject to budget priorities. The FEEDS studies are also networked to provide demonstrations for remote classes.

The College facilities run most of the standard engineering software. Languages include Fortran, Basic, Pascal, C, Ada, several varieties of LISP and Prolog. Applications software includes mathematical libraries, suites of programs for VLSI design, chemical process design, civil and mechanical engineering design, robotics simulation, and circuit simulation and analysis. There are high resolution color terminals for use in conjunction with these activities, and for mechanical design there are four multiple display workstations with joysticks and digitizing pads. Similar arrangements are used for VLSI design.

Additionally, the Computer Science and Engineering Department within the College runs other facilities consisting of an Ethernet with SUN and DEC machines, an Intel Hypercube parallel computer, and extensive microcomputer laboratories.

Cooperative Education Program

A wide variety of industries and government agencies have established cooperative programs for engineering students to provide them the opportunity to become familiar with the practical aspects of industrial operations and engineering careers. Students in the Career Resource Center’s Cooperative Education (Co-op) program alternate periods of paid employment in their major field with like periods of study. Students following
the Co-op program usually encounter no problems in scheduling their program, since required Social Science and Humanities, Mathematics and Science, and Engineering Core courses are offered every semester. Students normally apply for participation in this program during their sophomore year and pursue actual Co-op employment during their sophomore and junior years. The senior year is generally pursued on a full-time study basis, since many specialization courses are not offered every semester. The students receive a Cooperative Education Certificate upon successful completion of a minimum of two work assignments.

STAC (Southern Technology Applications Center)

The Space Act of 1958 directed NASA "to provide the widest practical and appropriate dissemination of information concerning its activities and results thereof." In order to pursue this mandate NASA established a network of Industrial Applications Centers (IACS) to disseminate and transfer NASA technology, products and processes to the private sector.

In 1977 NASA and the State University System of Florida combined resources to form the Southern Technology Applications Center which operated a regional IAC in the State of Florida. STAC is a not-for-profit 501.C3 Corporation partially supported by NASA and SUS grants and its effective network of experts and resources are located at the colleges of Engineering at six of the SUS universities.

In December 1991 the NASA IAC Network was reorganized to provide comprehensive technology transfer and economic development services. The new program resulted in a network of six Regional Technology Transfer Centers that link NASA Field Centers, Federal Laboratories, Universities and other Technology Transfer networks for more efficient technology transfer.

In January 1992 STAC was appointed the Southeast Regional Technology Transfer Center (RTTC) with responsibility for nine Southeastern states.

Since the early days of its existence STAC has built a reputation for successfully identifying, matching, developing and deploying the critical information and technology needed by business, industry, academic institutions and government. In this way, American companies, especially small firms are able to capitalize rapidly on the results of scientific research and technological innovation and realize the increased productivity needed to compete in the dynamic marketplace.

The cornerstone of STAC's technology transfer success is a professional staff retained and experienced in engineering, physical and biological sciences, medicine, social and behavioral sciences, business planning, marketing, training, library science and government. STAC's Information Research Center accesses an international array of over 2000 databases and 35 document retrieval sources. STAC's hands-on approach enables each client to receive the attention and alternative solutions needed to make the best strategic decisions.

STAC is the connection to access the information technology, inventions, equipment, facilities and expertise that resides within NASA, the other 700+ Federal laboratories and the SUS Universities.

Army & Air Force R.O.T.C.

For Engineering Students

The Engineering curriculum, coupled with involvement in the Army or Air Force R.O.T.C. program, requires a minimum of five (5) years to complete the degree requirements. Army and Air Force R.O.T.C. cadets must take 16 additional hours in either military science or aerospace studies. Additionally, Air Force-sponsored summer training camp is scheduled between the sophomore and junior year for Air Force cadets, and Army cadets attend an Army-sponsored summer training program between the junior and senior years.
incorporate examples of tools and techniques used in design and presentation. Laboratory excercises will include computer tools, engineering design, and presentation skills.

EGN 3311 STATICS (3)

EGN 3321 DYNAMICS (3)
PR: EGN 3311. Dynamics of discrete particles; kinematics and kinetics for rigid bodies. Lec.

EGN 3331 MECHANICS OF MATERIALS (3)
PR: EGN 3311. Stress, strain, Hooker’s Law; torsion, beam, column analysis; combined stresses; inelastic effects, limit design. Lec.

EGN 3331L MECHANICS OF MATERIALS LABORATORY (1)

EGN 3343 THERMODYNAMICS I (3)

EGN 3353 BASIC FLUID MECHANICS (3)

EGN 3365 MATERIALS ENGINEERING I (3)
PR: CHM 2046, EGN 3311. Structure and property relationships in engineering materials, i.e., metal, ceramic and polymer systems. Environmental effects are also treated.

EGN 3373 INTRODUCTION TO ELECTRICAL SYSTEMS I (3)

EGN 3374 INTRODUCTION TO ELECTRICAL SYSTEMS II (3)
PR: EGN 3373. Continuation of EGN 3373.

EGN 3375 INTRODUCTION TO ELECTRICAL SYSTEMS III (3)
PR: EGN 3373. Continuation of EGN 3373 or EGN 3374.

EGN 3433 SYSTEM DYNAMICS (3)
CR: EML 4041; PR: EGN 3321, EGN 4450, PHY 2049. Dynamic analysis of electrical, mechanical, hydraulic and thermal systems; LaPlace transforms; numerical methods; use of computers in dynamic systems.

EGN 3443 ENGINEERING STATISTICS I (3)
PR: MAC 2302. An introduction to the basic concepts of statistical analysis with special emphasis on engineering applications.

EGN 3613C ENGINEERING ECONOMY I (3)
A study in analyzing the economic limitations imposed on engineering activities using basic models which consider the time value of money.

EGN 4366 MATERIALS ENGINEERING II (3)
PR: EGN 3365. Applications and structure property relationships of commonly used engineering materials. Steel, non-ferrous alloys and their welding, heat treatment and processing, introduction to ceramic and polymeric materials.

EGN 4420 NUMERICAL METHODS OF ANALYSIS (2)

EGN 4430 INTRODUCTION TO LINEAR SYSTEMS (2)
PR: MAC 2282. Study and application of matrix algebra, differential equations and calculus of finite differences.

EGN 4831 TECHNOLOGY AND SOCIETY -XMW (3)
Non-technical survey of engineering activities: utilities, nuclear power, genetics, weaponry, space etc. Students conduct an individual in-depth study of environmental/ethical problem.

EGN 4905 INDEPENDENT STUDY (1-5)
PR: CL. Specialized independent study determined by the students' needs and interests. May be repeated up to 15 credit hours. (S/U; only 5 credit hours/semester.)

EGN 4930 SPECIAL TOPICS IN ENGINEERING (1-3)
PR: CL. New technical topics of interest to engineering students. May be repeated for different topics up to 9 hours.

EGN 5421 ENGINEERING APPLICATIONS FOR VECTOR ANALYSIS (3)
PR: MAP 2302. Vector methods of electromagnetism and fluid mechanics. Vector operators, line and flux integrals, potential and transport theorems, applications.

EGN 5422 ENGINEERING APPLICATIONS OF PARTIAL DIFFERENTIAL EQUATIONS (3)

EGN 5423 MATHEMATICAL ASPECTS OF COMMUNICATION ENGINEERING (3)

EGN 5424 ENGINEERING APPLICATIONS OF COMPLEX ANALYSIS (3)
PR: MAC 2302 or CC. Analytic functions, conformal mapping, residue theory, Laurent series, transforms. Applications to various problems in engineering and physics.

EGN 5425 ENGINEERING APPLICATIONS OF ADVANCED MATRIX COMPUTATIONS (3)
PR: EGN 4450 and MAP 2302, or CC. Survey of theory and software for matrix computations: factorization methods, least-squares and pseudo-inverses, eigenvector algorithms. Special matrices and representations for control system and finite element applications.

EGN 1113 INTRODUCTION TO DESIGN GRAPhICS (3)
An introduction to the basic principles of engineering design. The course will include the graphic projective systems used in engineering drawing and design. Methods of graphic communication and graphic analysis of engineering design problems will be investigated.

Chemical Engineering
ECH 3023 INTRODUCTION TO PROCESS ENGINEERING (3)

ECH 3264C TRANSPORT PROCESSES I (3)
PR: ECH 3023. Design, sizing, and selection of fluid flow and heat transfer equipment to satisfy process demands. Lecture/laboratory.

ECH 3702 INSTRUMENT SYSTEMS I (4)

ECH 4123C PHASE AND CHEMICAL EQUILIBRIA (3)
PR: For majors, ECH 3023; for non-majors ECH 3023 or CHM 4410. Correlation of thermodynamic properties of real systems and solutions. Description of multicomponent, multiphase systems in equilibrium. Applications to separation processes and reactor design. Lecture/laboratory.

ECH 4244L CHEMICAL ENGINEERING LABORATORY II (2)
CR: ECH 4415C. PR: ECH 3264C, ECH 3702, EML 3303, or CI. Engineering laboratory experiments in Chemical Engineering Processes: fluid flow, heat transfer, phase and chemical equilibrium, and reactor systems.

ECH 4265C TRANSPORT PROCESSES II (3)
PR: ECH 3264C. Design, sizing, and selection of mass transfer equipment. Absorption, distillation, extraction, humidification. Lecture/laboratory.

ECH 4323C AUTOMATIC CONTROL I (3)

ECH 4415C REACTING SYSTEMS (3)
CR: ECH 4244L. PR: ECH 4112, ECH 4123C. Equilibrium and rate phenomena in reacting systems. Description of homogeneous chemical reactors for design and control. Lecture/laboratory.
ECH 4805 STRATEGIES OF PROCESS ENGINEERING (3)  

ECH 4815 PLANT DESIGN AND OPTIMIZATION (3)  

ECH 4905 INDEPENDENT STUDY (1-4)  
PR: CI. Specialized independent study determined by the student's needs and interests. May be repeated up to 3 credit hours.

ECH 4930 SPECIAL TOPICS IN CHEMICAL ENGINEERING I (1-4)  
PR: CC. May be repeated up to 9 credit hours.

ECH 4931 SPECIAL TOPICS IN CHEMICAL ENGINEERING II (1-4)  
PR: CI. May be repeated up to 9 credit hours.

ECH 5285 TRANSPORT PHENOMENA (3)  
PR: Senior or graduate standing in engineering. Basic descriptive equations of fluid, heat, and mass transport. Description and solution to intermediate problems, including unsteady state and multidimensional systems. Estimation of transport and convective coefficients.

ECH 5324 AUTOMATIC PROCESS CONTROL II (3)  
PR: ECH 4323C or CI. The course covers the root locus and frequency response methods. The techniques of rational, continuous feedback, selective override, and multivariable control techniques are discussed in detail. The course also shows how to utilize these techniques to design control systems. Z-transforms and discrete control including PID, Dahlin, and deadlock compensation.

ECH 5747C SELECTED TOPICS IN CHEMICAL ENGINEERING BIOTECHNOLOGY (1-3)  
PR: Senior standing in engineering or CI. Selected topics in chemical engineering biotechnology, including pharmaceutical engineering, immobilized enzyme technology, food engineering, and fermentation. Open to non-engineering students with CI.

ECH 5747D SELECTED TOPICS IN CHEMICAL ENGINEERING BIOTECHNOLOGY (1-3)  
PR: Senior standing in engineering or CI. Selected topics in chemical engineering biotechnology, including pharmaceutical engineering, immobilized enzyme technology, food engineering, and fermentation. Open to non-engineering students with CI.

ECH 5748 SELECTED TOPICS IN BIOMEDICAL ENGINEERING (1-3)  
PR: CI. Selected topics in biomedical engineering, including biomedical materials, biomechanics, biomedical instrumentation, prosthetic devices, and clinical engineering. Open to non-engineering students with CI.

ECH 5780 ENVIRONMENTAL REACTING SYSTEMS (3)  
Application of chemical reaction engineering principles to problems in environmental engineering. Basic chemical kinetics and the modeling of batch and continuous systems. Applications will include containment fate and transport and remediation.

ECH 5820 PRODUCT DEVELOPMENT (2)  
Senior or graduate standing in engineering or CI. An introduction to the development of consumer products, including the history of innovation, creativity development, the product development environment, and a detailed examination of several product areas.

ECH 5910 DIRECTED RESEARCH IN BIOENGINEERING (1-3)  
PR: CI. Directed research in an area of biomedical engineering or engineering biotechnology. May be repeated up to 4 credit hours.

ECH 5930 SPECIAL TOPICS III (1-4)  
PR: CI. May be repeated up to 9 credit hours.

ECH 5931 SPECIAL TOPICS IV (1-4)  
PR: CI. May be repeated up to 9 credit hours.

Civil and Environmental Engineering
CEG 4011 SOIL MECHANICS I (3)  
PR: EGN 3353C. Fundamental and experimental concepts in soil mechanics with emphasis on soil properties, soil moisture, soil structure, and shearing strength.

CEG 4011L GEOTECHNICAL LABORATORY (1)  
CR: CEG 4011. Demonstrates and experiments verifying theoretical bases of Geotechnical Engineering. One hour lecture and two laboratory hours per week.

CEG 4012 SOIL MECHANICS II (3)  
PR: CEG 4011. Design of retaining walls, earth slopes, foundations to control settlement, soil stabilization and foundations subjected to dynamic loads. Computer applications to soil mechanics will be covered.

CEG 4801 GEOTECHNICAL DESIGN (2)  
PR: CEG 4011. Design of geotechnical systems including bases, foundations, embankments, and dams.

CEG 4858 CAPSTONE GEOTECHNICAL/TRANSPORTATION DESIGN (3)  
PR: CEG 4011, TTE 4004. A capstone geotechnical/transportation design experience for seniors in Civil and Environmental Engineering. Design of embankments and pavement bases. Comprehensive surface streets. Open highway intersection and site design involving functional design, facility sizing, complete alignments and coordination, plan preparation, site layout and design, quantity summarization, bid tab planning and specification preparation.

CEG 5115 FOUNDATION ENGINEERING (3)  
PR: CEG 4011 or CI. Design of shallow foundations, cantilevered and anchored retaining walls, piling, drilled piers and special foundations. Computer applications to geotechnical engineering are covered.

CEG 5205 LABORATORY TESTING FOR GEOTECHNICAL ENGINEERS (3)  
PR: CEG 4011 or CI. Both routine and advanced forms of soil testing are covered. Emphasis is placed on procedures and application of results to design.

CES 3102 STRUCTURES I (3)  
PR: EGN 3331. Analysis of simple structural systems, both determinate and indeterminate. Introduction to the use of energy methods in indeterminate structures.

CES 4000 STRUCTURES AND THE URBAN ENVIRONMENT FOR NON-ENGINEERS - 6A -XMW (3)  
This course reviews the best works of structural engineering to indicate how current technology and social context affects structural form, to familiarize students with relevant structural principles, and to introduce the concept of structural art.

CES 4141 MATRIX STRUCTURAL ANALYSIS (3)  

CES 4561 COMPUTER-AIDED STRUCTURAL DESIGN (3)  
PR: CES 4141. Computer aided structural analysis and design using existing finite element program, static dynamic loading.

CES 4605 CONCEPTS OF STEEL DESIGN (3)  
PR: CES 3102. Introduction to steel design and AISI Manual of Steel Construction: Design of tension members; compression members; beams; beam columns; and bolted, welded, and riveted connections.

CES 4618 STRUCTURAL DESIGN STEEL (2)  
PR: CES 4605. Design of structures made of steel.

CES 4702 CONCEPTS OF CONCRETE DESIGN (3)  
PR: CES 3102. Introduction to concrete design and the ACI
CWR 4117 WATER QUALITY AND TREATMENT
PR: EGN 3353. An introduction to municipal water supply and waste water treatment. Topics include water requirements and waste volumes, water quality, physical and chemical treatment processes, and advanced wastewater treatment processes.

CWR 4118 WATER SYSTEMS DESIGN
PR: EGN 3353. Corequisite ENV 4502. A design oriented course to design both industrial and municipal water systems and water transport systems, including drainage, water supply, and flood control.

ENV 4000 ENVIRONMENTAL ENGINEERING LABORATORY
PR: ENV 3001, CR: ENV 4502. Laboratory experience in the measuring of environmental parameters.

ENV 4101 AIR POLLUTION CONTROL
PR: EGN 3353. Behavior and effects of atmospheric contaminants and the principles of managing them in the air environment. Basic concepts of meteorology and control technology are discussed. Regulatory aspects and air pollution standards are covered.

ENV 4102 CHEMICAL ASPECTS OF ENVIRONMENTAL ENGINEERING
PR: One year general chemistry. Environmental quality and treatment parameters; sampling and sample preservation techniques; selected measurement techniques; interpretation and analysis of data; emphasis on water chemistry principles. Course is restricted to students pursuing the environmental engineering option in Civil Engineering and Chemical Engineering.

ENV 4117 WATER QUALITY AND TREATMENT
PR: EGN 3353. An introduction to municipal water quality and wastewater treatment. Topics include water requirements and waste volumes, water quality, physical and chemical treatment processes, and advanced wastewater treatment processes.

ENV 4122 CAPSTONE WATER RESOURCES DESIGN
PR: CWR 4202. A capstone water resources design experience for seniors in Civil and Environmental Engineering. A design oriented course to design both industrial and domestic water treatment, and water transport systems and hydraulic systems, including drainage, water supply, and flood control.

ENV 4204 CORROSION OF ENGINEERING MATERIALS I
PR: EGN 3365L. Principles of electrochemical corrosion and the representation of corrosion processes by polarization diagrams. Origin and prevention of the localized forms of corrosion and approaches to corrosion control.

ENV 4304 FAILURE ANALYSIS AND PREVENTION

ENV 4400 ENVIRONMENTAL ENGINEERING
PR: EGN 3353. An introduction to various aspects of environmental problems faced by today's society. Topics covered are: air pollution, water pollution, noise pollution, solid waste management, ionizing radiation, disease transmission, and food protection.

ENV 4401 ENVIRONMENTAL ENGINEERING LABORATORY
PR: ENV 3001, CR: ENV 4502. Laboratory experience in the measuring of environmental parameters.

ENV 4402 CHEMICAL ASPECTS OF ENVIRONMENTAL ENGINEERING
PR: One year general chemistry. Environmental quality and treatment parameters; sampling and sample preservation techniques; selected measurement techniques; interpretation and analysis of data; emphasis on water chemistry principles. Course is restricted to students pursuing the environmental engineering option in Civil Engineering and Chemical Engineering.

ENV 4417 WATER QUALITY AND TREATMENT
PR: EGN 3353. An introduction to municipal water supply and waste water treatment. Topics include water requirements and waste volumes, water quality, physical and chemical treatment processes, and advanced wastewater treatment processes.

ENV 4432 WATER SYSTEMS DESIGN
PR: EGN 3353. Corequisite ENV 4502. A design oriented course which utilizes the theory obtained in the Unit Operations course to design both industrial and municipal water treatment and water transport systems. It emphasizes the design procedures normally used in engineering practice.

ENV 4450 ENVIRONMENTAL ENGINEERING LABORATORY
PR: ENV 3001, CR: ENV 4502. The theory and the design of unit operations normally used in the practice of environmental engineering, such as agitation and mixing of
### Environmental and Civil Engineering Courses

**ENV 4503: Environmental Unit Processes**
- PR: ECH 3023, ENV 4502. The theory and design of unit processes normally used in environmental engineering such as coagulation of colloidal materials, water stabilization, water softening and neutralization, ion exchange, adsorption, and oxidation processes for removal of iron and magnesium.

**ENV 4531: Wastewater Systems Design**
- PR: ENV 4503. Emphasis is placed upon design practice and economics for a comprehensive design of a wastewater system and a collection system.

**ENV 4552: Environmental Unit Operations and Processes Laboratory**
- PR: EGN 3353, ENV 4004L. CR: ENV 4503. Experimental work of the theory and design practices learned in Unit Operations and Unit Processes lecture courses. It provides the student familiarity with the development of bench and pilot plant processes and operations used in environmental engineering.

**ENV 4591: Capstone Water and Wastewater Design**
- PR: EGN 3353 and ENV 4503. A capstone environmental design experience for seniors in Civil and Environmental Engineering. This design oriented course to design both industrial and domestic water treatment and water transport systems and wastewater and collection systems. The course emphasizes the design procedure normally used in engineering practice.

**ENV 5105: Air Resource Management**
- PR: CI. Air pollution source impacts on ambient air quality, modeling, regulatory approaches, source strategic controls and surveillance.

**ENV 5345: Solid and Hazardous Waste Control**
- PR: CI. Treatment practices and design of waste handling systems to include: land treatment, pretreatment, incineration, resource recovery, recycle, waste elimination.

**ENV 5614: Environmental Risk Analysis**
- PR: CI. Study of comprehensive application of risk analysis techniques for environmental control and protection purposes.

**SUR 2101C: Engineering Land Surveying**
- Principles of land surveying for engineering practice. Traverses, levels, boundary surveys, route surveys, coordinate geometry, and mapping.

**TTE 4004: Transportation Engineering I**
- PR: EGN 3353, ETE 4004L. CR: EED 4004L. Principles of surface transportation systems; development, design, and operations; administration, modal characteristics, capacities, and functional classifications; vehicle kinematics, human factors and minimum design standards; traffic flow theory and queuing, capacity and signalization; transportation planning and economics.

**TTE 4005: Transportation Engineering II**
- PR: TTE 4004. Techniques for the geometric route design of surface transportation systems; horizontal and vertical alignments. Spiral curves, super-elevations and earthwork analysis; drainage, soils, and a rigid and flexible pavement design; right-of-way acquisition and Environmental Impacts; site layout & design, and operation of alternate models including bus, air, rail, water, and pipeline facilities and terminals.

**TTE 4821: Transportation Systems Design**
- PR: TTE 4005. Comprehensive surface transportation design laboratory experience involving function design, traffic and facility sizing, complete alignments, site surveying & layout, plan and quantity preparation with computerized designed applications.

**TTE 5501: Transportation Planning and Economics**
- PR: College Algebra & CI. Fundamentals of urban transportation planning: trip generation, trip distribution, modal split, traffic assignment. Introduction to environmental impact analysis, evaluation and choice of transportation alternatives.

### Computer Science and Engineering Courses

**CAP 5400: Digital Image Processing**
- PR: EEL 4851C or Graduate Standing. Image formation, sources of image degradation, image enhancement techniques, edge detection operators, and threshold selection, low-level processing algorithms for vision, image data compression.

**CAP 5625: Introduction to Artificial Intelligence**
- PR: EEL 4851C. Basic concepts, tools and techniques used to produce and study intelligent behavior. Organizing knowledge, exploiting constraints, searching spaces, understanding natural languages, problem solving strategies, etc.

**CAP 5882: Expert and Intelligent Systems**
- Basic concepts, techniques and tools for the design and implementation of expert and intelligent systems. Knowledge representation, inference methods, knowledge acquisition methods, and some advanced concepts. Tools to facilitate construction of expert and intelligent systems.

### Business Courses

**CIS 4250: Ethical Issues and Professional Conduct**
- PR: Senior standing in the Department of Computer Science and Engineering. An introduction to ethical issues arising in the computer sciences, through written analysis and oral presentations of technical situations which involve ethical conflicts.

**CIS 4900: Independent Study in Computer Science**
- PR: CI. Specialized independent study determined by the needs and interests of the student. May be repeated up to 10 credit hours. (S/U only.)

**CIS 4910: Computer Science Project**
- Projects intended to develop individual interests and abilities in computer science involving either computer hardware or software aspects of a well defined proposal.

**COP 2000L: Computer Science Laboratory**

**COP 2510: Programming Concepts**
- PR: COP 2000L. An examination of a modern programming language emphasizing programming concepts and design methodology.

**COP 4020: Programming Languages**
- PR: EEL 4851C. An introduction to programming languages,
survey of language types and design of translators and interpreters.

COP 4023 COMPARISON OF PROGRAMMING LANGUAGES (3)
PR: EEL 4851C. A comparative study of procedural and nonprocedural computer languages, emphasizing the fundamental differences in information binding, string and data structures manipulation, control and I/O structures in different languages.

COP 4312 SYMBOLIC COMPUTER FOR ARTIFICIAL INTELLIGENCE (3)
PR: COP 2000L. An examination of the fundamental symbolic computing and its role in artificially intelligent computers. Includes program writing in LISP with emphasis on procedural and data abstraction.

COP 4600 OPERATING SYSTEMS (3)
PR: EEL 4851C. Introduction to systems programming. Design of operating systems. Concurrent processing, synchronization, and storage management policies.

COT 3100 INTRODUCTION TO DISCRETE STRUCTURES (3)
PR: MAC 2281 or equivalent. Introduction to set algebra, propositional calculus and finite algebraic structures as they apply to computer systems.

COT 4121 INTRODUCTION TO AUTOMATA THEORY AND FORMAL LANGUAGES (3)
PR: EEL 4851C. Introduction to the theory and application of various types of computing devices and the languages they recognize.

COT 4460 ANALYSIS OF ALGORITHMS (3)
PR: EEL 4851C. Design principles and analysis techniques applicable to various classes of computer algorithms frequently used in practice.

EEL 4705 LOGIC DESIGN (3)
PR: EGN 3373, CR: EEL 4705L; for CS & E students CR or PR: COP 2002. Binary number systems; truth functions; Boolean algebra; canonical forms; minimization of combinational logic circuits; synchronous logic circuits in computers.

EEL 4705L LOGIC LABORATORY (1)
CR: EEL 4705.

EEL 4743L MICROPROCESSOR LABORATORY (1)
CR: EEL 4744. Laboratory for Microprocessor use and evaluation.

EEL 4744 MICROPROCESSOR PRINCIPLES AND APPLICATIONS (3)

EEL 4748 MICROPROCESSOR-BASED SYSTEM DESIGN AND APPLICATION (3)
PR: EEL 4747L, EEL 4743L. Study of techniques for design of microprocessor-based systems used in various applications. Includes a project on development of an experimental application system.

EEL 4781C DISTRIBUTED PROCESSING AND COMPUTER NETWORKS (3)
PR: COP 4600, CDA 4100. Design and analysis of distributed processing systems. Covers communication hardware and software, network operating systems, and reliability enhancement techniques.

EEL 4851C DATA STRUCTURES (3)
PR: COP 2002, COP 2000L. Fundamentals of data organization for purposes of program efficiency, clarity and simplicity will be addressed.

EEL 4852C DATA BASE SYSTEMS (3)
PR: EEL 4851C. Fundamentals of data base management systems. CODASYL, network, hierarchical, and relational data base systems are analyzed, and typical applications are presented.

EEL 5771 INTRODUCTION TO COMPUTER GRAPHICS I (3)
PR: CI. An introduction to the evolution of computer graphics including point-plotting, line drawing, two-dimensional transformations and graphics software packages.

Computer Service
(CGS 2060 SC INTRODUCTION TO COMPUTERS AND PROGRAMMING IN BASIC -6A (3)
An overview of computer systems and their role in society. Survey of the evolution of computer software and hardware technology with emphasis on current applications. Introduction to programming using the BASIC language.

CGS 3062 COMPUTERS AND SOCIETY (3)
This computer literacy course covers the fundamentals of hardware, software, and programming languages, presents a broad overview of data processing concepts, problems and applications for students with little or no computing background. (For non-engineering majors only.)

CGS 3462 SC PASCAL PROGRAMMING (3)
PR: CGS 2060. Structured programming implemented with the PASCAL language. Emphasis on program structure and data manipulation.

CGS 3463 SC GPSS SIMULATION (3)
PR: COP 2200. The development and execution of discrete event simulation models of real world systems using the GPSS language.

CGS 3464 SC SIMSCRIPT SIMULATION (3)

CGS 4260 SC MINI-COMPUTER APPLICATIONS (3)
PR: CGS 4465. Study of mini-computer system components, I-O devices, theory of computer operation.

COP 2120 SC COBOL PROGRAMMING I (3)

COP 2121 SC COBOL PROGRAMMING II (3)
PR: COP 2120. Advanced applications of ANSI Standard COBOL. Development of subroutines, relative I-O and data base applications as used in a comprehensive data processing environment.

COP 2200 SC FORTRAN PROGRAMMING (3)
PR: CGS 2060. Solution of scientifically oriented problems using the FORTRAN language. Particular emphasis is placed on file manipulation and system libraries.

ETG 4931 SPECIAL TOPICS IN TECHNOLOGY I (1-5)
PR: CC.

ETG 4932 SPECIAL TOPICS IN TECHNOLOGY II (1-5)
PR: CC.

ETI 4666 PRINCIPLES OF INDUSTRIAL OPERATIONS II (3)
PR: CC. Application of techniques developed to the operation of an industrial firm through special projects.

Electrical Engineering
EEL 3100 NETWORK ANALYSIS AND DESIGN (3)

EEL 3302 ELECTRONICS I (3)
PR: EGN 3373. A course in the physical principles of electronic devices with emphasis on semi-conductor electronics. Includes the analysis and design of amplifiers and switching circuits.

EEL 4102 LINEAR SYSTEMS ANALYSIS (3)
PR: EEL 3100. Provides further study in the analysis of linear networks and systems. Includes time and frequency domain points of view, Laplace, Fourier and superposition integrals.

EEL 4163 COMPUTER AIDED DESIGN AND ANALYSIS (2)
PR: EEL 3302, EEL 4705. The emphasis is upon applications and how to use the major CADA programs as effective tools to solve a wide variety of engineering problems. The coverage includes solid state design, systems analysis, digital logic, and transfer function solutions.

EEL 4305 ELECTRONICS II (3)
PR: EEL 3302. Provides further study in electronic circuits. Includes feedback and frequency response techniques in amplifier design.
EEL 4567 ELECTRO-OPTICS (3)
PR: EEL 3301L, 3302L, 3410. An introduction to the field of electro-optics, including visible and infra-red sources and detectors, radiometry, optical and electronic components, and fiber optics.

EEL 4657 LINEAR CONTROL SYSTEMS (3)
PR: EEL 3100. Introduction to analysis and design of linear feedback control systems. Covers block diagram, flow charts.

EEL 4705 LOGIC DESIGN (3)
PR: EGN 3373. Non-majors may enroll with CI. Basic number systems, truth functions, Boolean algebra, canonical forms; minimization of combinational logic circuits; logic circuits in computers.

EEL 4705L LOGIC LABORATORY (1)
CR: EEL 4705.

EEL 4743L MICROPROCESSOR LABORATORY (1)
CR: EEL 4744. Laboratory for microprocessor use and evaluation.

EEL 4744 MICROPROCESSOR PRINCIPLES AND APPLICATIONS (3)

EEL 4756 SIGNAL AND IMAGE PROCESSING (3)
Sampling and quantization of signals and images; frequency-domain representations, transforms, filtering, convolution, and correlation; raster scanning and interfacing; color images; mast fethods and parallelism; multi-rate processing; information signals.

EEL 4905 INDEPENDENT STUDY (1 - 5)
PR: CI. Specialized independent study determined by the students’ needs and interests. May be repeated up to 15 credit hours. (SU only.)

EEL 4905 INTRO TO ENGINEERING DESIGN (2)
PR: Senior standing. An introduction to engineering design with applications specific to practical engineering problems. Included are discussions of such "real world" considerationa as economics, safety, ethics, and the environment.

EEL 4935, 4936, 4937 SPECIAL ELECTRICAL TOPICS I, II, III (1 - 4 each)

EEL 5250 POWER SYSTEM ANALYSIS (3)
Introduces basic concepts in electrical power generation, transmission, distribution and system control. Analysis techniques for AC power.

EEL 5346 DIGITAL CMOS/VLSI DESIGN (3)
PR: EEL 4705 or CC. Design, layout, simulation, and test of custom digital CMOS/VLSI chips, a CMOS cell library and state-of-the-art CAD tools. Digital CMOS static and dynamic gates, flip flops CMOS array structures commonly used in digital systems. Top down design example of a bit slice processor.

EEL 5356 INTEGRATED CIRCUIT TECHNOLOGY (3)
PR: EEL 4351 or CI. Physics and Chemistry of integrated circuit and discrete device fabrication, materials limitations, processing schemes, failure and yield analysis. A laboratory is integral to the course.

EEL 5357 ANALOG CMOS/VLSI DESIGN (3)

EEL 5382 MICROELECTRONICS (3)
PR: EEL 3410. Quantum mechanics with emphasis on electronic properties in atoms, molecules, and crystals; quantum statistics; energy band theory; crystal structures; defect chemistry; semiconductor properties.

EEL 5437 MICROWAVE ENGINEERING (3)
PR: EEL 4411, 4102, or CC. Introduction to passive and active components, devices, and circuits, including transmission lines and waveguides, employed in microwave integrated circuits and systems.

EEL 5462 ANTENNA THEORY (3)
PR: EEL 4411 or CC. Antenna theory beginning with fundamental parameter definitions and continuing with mathematical concepts, elemental antennas and arrays.

EEL 5531 VIDEO AND HIGH DEFINITION TELEVISION (3)
PR: EEL 4512 or CC. Principles of video transmission and television. Enhanced definition and high definition television principles, standards, and technology. Digital TV and HDTV.

EEL 5572C LOCAL AREA NETWORKS AND INTERFACING (3)
PR: EEL 4512. Network components: Communication terminals, PC’s telephone, etc. Basics of LAN’s, Tx media topologies, access methods, and LAN characteristics. Interfacing of terminals and PC’s to LAN’s; NAU’s and other interfacing devices; interface selection. LAN design issues, repeaters, timing circuits, gateways.

EEL 5631 DIGITAL CONTROL SYSTEMS (3)
PR: EEL 4657. Sample data and digital control processes.

EEL 5754C MICROPROCESSOR BASED DIGITAL SIGNAL PROCESSING (3)
PR: EEL 4705 or CC. Arithmetic systems, processing structures, efficient algorithms. DSP hardware, TI, NEC and other DSP microprocessors; multiprocessing hardware and software. System development. Application to telecommunication and voice processing.

EEL 5772 INTRODUCTION TO PLASMA PROCESSING AND TECHNOLOGY (3)
PR: EEL 4411 and EEL 4303 or equivalent. Self-contained introduction to plasma manufacturing methods employed in semiconductor fabrication. Covers physics and chemistry pertaining to plasma process. Prior knowledge in microelectronics and electromagnetics required.

EEL 5935, 5936, 5937 SPECIAL ELECTRICAL TOPICS I, II, III (1-3 each)
PR: CC.

EIN 3301L LABORATORY 1 (1)
PR: EGN 3373.

EIN 3302L LABORATORY 2 (1)
PR: ELE 3301L and EEL 3302, CR: EEL 4305.

EIN 4306L LABORATORY 4 (1)
PR: ELE 3301L CR: EEL 4411.

Industrial and Management Systems

EIN 4304C INTRODUCTION TO INDUSTRIAL ENGINEERING (3)
History of industrial engineering. Introduction to basic industrial processes and controls. Students research specific industries and visit local industrial plants.

EIN 4312C WORK ANALYSIS (3)
PR: EGN 3613, EGN 3443. Operation analysis and workspace design, work measurement, standard data, ergonomics, and labor costing.

EIN 4313C HUMAN FACTORS (3)
PR: CI. Design of man-machine systems, by taking into consideration both human and machine capabilities and limitations.

EIN 4333 PRODUCTION CONTROL (3)
PR: ESI 4312. Planning and control of production systems.
EIN 4364C FACILITIES DESIGN I (3)
PR: EIN 4312 EIN 4411. Design and modification of industrial production and material handling facilities. Basic analysis techniques, use of computer programs, automated warehousing and quality control.

EIN 4365 FACILITIES DESIGN II -XMW (3)
PR: EIN 4364. CAD/CIM, complete design of a plant facility. Course to use computers and software geared toward plant design and operation. A team of students is to be responsible for the complete project.

EIN 4411 MANUFACTURING PROCESSES (3)
PR: EGS 1113. The study of basic manufacturing processes and precision assembly. CAD/CAM including NC programming.

EIN 4601L AUTOMATION AND ROBOTICS (3)
PR: EIN 4411, EGN 3443. Introduction to the practices and concepts of automation as applied to material handling, inventory storage, material transfer, industrial processes and quality control.

EIN 4933 SPECIAL TOPICS IN INDUSTRIAL ENGINEERING (1-5)
Special topics related to economic analysis, optimization, human factors, manufacturing and automation aspect of industrial systems. Repeatable up to 5 credit hours.

EIN 5245 WORK PHYSIOLOGY AND BIOMECHANICS (3)
PR: CC. Human physiological limitations encountered in the design, analysis and evaluation of man-machine systems.

EIN 5253 HUMAN PROBLEMS IN AUTOMATION (3)
The study and analysis of combined human operations, automated processes, and robotics in industrial environments.

EIN 5301C INDUSTRIAL ENGINEERING CONCEPTS (3)
PR: CC. Survey of industrial and management engineering methodology. Work measurement, methods, production and inventory control, and facility design.

EIN 5322 PRINCIPLES OF ENGINEERING MANAGEMENT (3)
Introduction to the fundamentals of accounting, finance, management, and marketing as needed by engineers, scientists, and other professionals in managerial positions.

EIN 5357 ENGINEERING VALUE ANALYSIS (3)
Statistical models for analyzing engineering alternatives from an economic viewpoint. The use of advanced engineering economy concepts in solving industrial problems.

EIN 5380 TECHNOLOGICAL FORECASTING (3)
Introduction to forecasting techniques used to plan and schedule production and inventory control functions. Smoothing and decomposition time-series methods, regression methods, and autoregression/moving average methods. Integrating forecasting and planning into the engineering organization.

EIN 5914 SPECIAL INDUSTRIAL PROJECTS (1-3)
PR: CC.

ESI 4221 INDUSTRIAL STATISTICS AND QUALITY CONTROL (3)
PR: EGN 3443, EIN 4411. Application of statistical techniques to the control of industrial processes. Control charts, acceptance sampling, design of experiments, analysis of variance and regression.

ESI 4244 DESIGN OF EXPERIMENTS (3)
PR: EGN 3443. Activity forecasting models and control. Design and use of inventory control models, both designs applicable to engineering analyses. Analysis of variance and regression.

ESI 4312 DETERMINISTIC O. R. (3)
PR: EGN 4450. An introduction to operations research techniques with particular emphasis on deterministic models. Linear programming, dynamic programming, goal programming, integer programming, and PERT/CPM networks are considered.

ESI 4313 PROBABILISTIC O. R. (3)

EIN 4361C COMPUTERS IN INDUSTRIAL ENGINEERING (3)
PR: EGN 2210. Use of micro and mini computer systems for industrial engineering applications. Review of available software packages. Use of computers for CAM/CAS system.

ESI 4523 INDUSTRIAL SYSTEMS SIMULATION (3)
PR: ESI 4313, EGN 3443. A study of the development and analysis of computer simulation models: Monte Carlo, time-series, and next-event. Introduction to special purpose simulation languages.

ESI 5121H INDEPENDENT STUDY (1-5)
PR: CI. Specialized independent study determined by the student's needs and interests. May be repeated up to 15 credit hours. (S/U only.)

EIN 4911 SENIOR PROJECT (2)
PR: EIN 4333, EIN 4312, EIN 4411. Analysis and design of systems in a directed project format. Individual or group work consisting of project proposal, project activities, and final report. Student projects are directed by faculty, with chairman's approval.

ESI 5219 STATISTICAL METHODS FOR ENGINEERING MANAGERS (3)
Study of statistical methods applied to engineering management problems involving estimation and prediction under conditions of uncertainty. Not open to students who have had EGN 3443.

ESI 5236 RELIABILITY ENGINEERING (3)
PR: EGN 3443 or equivalent. Fundamental concepts of reliability, estimation of reliability of systems and components. Measures of availability, maintainability and reliability.

ESI 5306 OPERATIONS RESEARCH FOR ENGINEERING MANAGEMENT (3)
Linear programming, non-linear programming, queuing, inventory, network analysis. Not open to students who have had ESI 4315.

ESI 5470 MANUFACTURING SYSTEMS ANALYSIS (3)
PR: CC. The study of systems of manufacturing entities such as machine tools, robots, and materials handlers. Emphasis is on mathematical description of integrated systems and system optimization.

ESI 5522 COMPUTER SIMULATION II (3)

Mechanical Engineering

EAS 4121 HYDRO AND AERODYNAMICS (3)
PR: EML 3701, MAP 2302. Advanced fluid dynamics, ideal and viscous flows, applications to flow around immersed bodies.

EML 3262 KINEMATICS AND DYNAMICS OF MACHINERY (3)
PR: MAC 2282, PHY 2048, EGN 3321. Kinematics of machines and mechanisms; position, velocity, and acceleration analysis of mechanisms; cams; gear trains; inertia forces in mechanisms; flywheels; balancing of rotating masses.

EML 3303 MECHANICAL ENGINEERING LAB I (3)

EML 3500 MACHINE ANALYSIS AND DESIGN I (3)
PR: EGN 3311, EGN 3365. Stress and deflection analysis of machine parts, variable loads, endurance limits, fasteners, bearings, power transmission, code consideration of pressure and vacuum vessels, elements of design.

EML 3701 FLUID SYSTEMS (3)
PR: EGN 3443. Principles of fluid flow; piping and duct systems; fluid machinery: metering of compressible and incompressible flow; boundary layer theory; dimensional analysis; introduction to aerodynamics.

EML 4041 COMPUTATIONAL METHODS (3)
PR: EGN 2210, EGN 4450. Techniques to solve engineering problems using numerical methods and digital computers. Topics include roots of equations, simultaneous linear
equations, numerical integration and differentiation, and curve fitting.

**EML 4106C THERMAL SYSTEMS AND ECONOMICS**  (3)
PR: EGN 3343. Power and refrigeration cycles; fuels and combustion; internal combustion engine cycles; co-generation; nuclear energy; methods of economic analysis.

**EML 4142C HEAT TRANSFER I**  (3)
PR: EML 3701, EML 4041. Conduction, convection and radiant heat transfer; thermal properties of materials; role of fluid flow in convective heat transfer; design and selection of heat exchangers.

**EML 4174 VISUAL BASIC FOR ENGINEERS AND SCIENTISTS**  (3)
PR: EGN 2210. Introduces students to the powerful graphical interface language of Visual Basic. Illustrates the use of the language in engineering and science applications.

**EML 4220C VIBRATIONS**  (3)

**EML 4302 MECHANICAL ENGINEERING LABORATORY II**  (3)
PR: EML 3303, EML 4142. Continuation of EML 3303 with emphasis on material and energy balances, stress analysis and vibrations. Lec.-lab. The Team-Project-Time Approach.

**EML 4312 MECHANICAL CONTROLS**  (3)

**EML 4419C PROPULSION I**  (3)
PR: EML 3701, EML 3500 or CI. Introduction to the design of propulsion systems. Basic analysis of internal combustion, jet and rocket engines. Application to ground and air transportation. Advanced propulsion concepts. Special topics for class discussion.

**EML 4501 MACHINE DESIGN**  (3)

**EML 4551 CAPSTONE DESIGN -XMW**  (3)
PR: EML 4501. Comprehensive design or feasibility project requiring application of previously acquired engineering knowledge; use of ANSYS and CAD.

**EML 4552 SENIOR MECHANICAL DESIGN**  (3)
PR: EML 4551 or CC. Comprehensive design or feasibility study project. In some cases may be a continuation of EML 4551.

**EML 4562 INTRODUCTION TO COMPOSITE MATERIALS**  (3)

**EML 4563 AIR CONDITIONING DESIGN**  (3)

**EML 4905 INDEPENDENT STUDY**  (1-4)
PR: CI. Specialized independent study determined by the student's needs and interests. May be repeated up to 15 credit hours.

**EML 4930 SPECIAL TOPICS IN MECHANICAL ENGR.**  (1-4)
PR: CC. May be repeated up to 9 credit hours.

**EML 5105 INTERNAL COMBUSTION ENGINES**  (3)
PR: EML 4106C or CI. Application of thermodynamics, chemistry, dynamics of machinery, electronics, and fluid mechanics. Topics covered are: introduction of engines, fuels and combustion, numerical modeling, ignition, fuel systems, balance of reciprocating mechanisms, and emission control of exhaust pollutants.

**EML 5225 ACOUSTICS AND NOISE CONTROL**  (2)

**EML 5245 TRIBOLOGY**  (3)

**EML 5325 MECHANICAL MANUFACTURING PROCESSES**  (3)
PR: CI. Description of mechanical material cutting, forming and fabrication methods, as used in modern industrial manufacturing processes.

**EML 5930 SPECIAL TOPICS III**  (1-4)
PR: CC. May be repeated up to 9 credit hours.

**EML 5931 SPECIAL TOPICS IV**  (1-4)
PR: CC. May be repeated up to 9 credit hours.
The College of Fine Arts exists in the context of a dynamic, contemporary, urban, research university setting, characterized by its cultural diversity. The College provides opportunities for students to develop their interests and talents to the fullest whether they wish to pursue a creative or performing career, a teaching career, or life-long artistic enrichment.

The College’s mission is to provide a broad and thorough education dedicated to (1) developing professional excellence in those who are interested in a career in the arts, (2) fostering a high level of aesthetic understanding in those preparing to teach, and (3) enriching the life and overall cultural environment of the community.

The College of Fine Arts is a unique entity housing four academic units and two academically-related units. The academic units include the School of Music and the departments of Art, Dance, and Theatre. The academically-related units are the Contemporary Art Museum and the Center for Research in Art/Graphicstudio.

Outreach Mission

The Art Department has linkages throughout the Tampa Bay area. Most recently, the College has extended its involvement in an economically distressed area near USF with the University-wide initiatives and USF Neighborhood Association. The Dance Department is an incubator for original contemporary and traditional dance compositions and is progressively enhanced by visiting artists including members of the Charleston Ballet Theatre, The Alvin Ailey Dance Company, The Indianapolis Ballet Theatre, and others. Until recently, the College hosted the Florida Dance Festival annually.

The School of Music hosted the preeminent International Society of Music Educators Conference in 1994. The Festival of Winds has a 20-year tradition of bringing in a large number of top high school musicians from all over Florida. The School of Music also presents the biennial annual Suncoast Music Educators Forum which draws attention throughout the country and Canada. The School brings renowned artists and groups such as the Russian Youth Chamber Orchestra, the Florida Brass Quintet, and others to the north Tampa area.

The Theatre Department is noted for the British International Program (BRIT), a private/public endowed partnership, that brings renowned English guest artists to create a rich learning and performing environment in north Tampa annually. The Theatre Department has extended this program into the surrounding community through performances in schools and other civic locations.

The mission of the Contemporary Art Museum focuses on fostering a creative environment for the enrichment and growth of USF students and faculty and citizens of the surrounding communities.

Graphicstudio, founded in 1968 at the University of South Florida, works under a mandate to carry on a program of basic research, producing visual artwork and techniques that will contribute in a significant way to the creation of new knowledge. The program serves the needs of a variety of constituencies including USF students and faculty, the local Tampa Bay community, the state of Florida, and the world of art at large. In its 25-year history, Graphicstudio has been joined in its mission by over 45 leading contemporary artists from around the world. These collaborations have resulted in the completion of 350 projects, copies of which are permanently archived at the National Gallery of Art in Washington DC.

BACCALAUREATE-LEVEL DEGREE PROGRAMS

Programs Leading to the Baccalaureate Degree

The College of Fine Arts offers four undergraduate degrees: the Bachelor or Arts (B.A.) in Art, Dance, and Theatre; the Bachelor of Music (B.M.) in Music; Bachelor of Fine Arts (B.F.A) in Design Concentration, Dance Performance; and the Bachelor of Arts (B.A.) and Bachelor of Science (B.S.) in Art Education, Music Education, and Dance Education.

Admission to the College

Students who wish to be admitted to the College of Fine Arts with a major in one of the four academic departments should contact the intended department (or School) for an audition or portfolio review as early as possible. Once the student is admitted to the University and passes the audition or portfolio review, he or she should file a declaration of major indicating the degree program. Continuing University students who wish to major in Fine Arts should also go through the audition or portfolio review process before filing a change of Major. The student must initiate this process from the College of the present major. The current academic record, then, will be transferred to the College of Fine Arts in the COFA advising office.

Transfer students and students from other units within USF with previous college or university fine arts course credits (art, dance, music, theatre) must have such credits evaluated in addition to meeting the portfolio or audition requirements when seeking admission to the College of Fine Arts. These students are urged to make early arrangements for the necessary portfolio reviews or auditions, as well as appointments for advising, since these must take place prior to course scheduling and registration. Further, students are required to provide copies of their transcripts showing all previous college or university coursework for advising, and portfolio review and/or audition appointments. Additional information may be obtained by telephoning or writing the College’s advising office or the office of the department or school of particular interest.

Advising in the College

The College of Fine Arts Office of Student Services and Advising, located in the Fine Arts building, offers a comprehensive service to all fine arts students and advice to non-majors who are interested in taking fine arts courses. The service includes Preview USF, Fantastic Friday, registration, academic advising, scholarships, graduation certification, mentorship programs, and referrals to other University and community-based services and career-related opportunities. Four major-field advisors (art, dance, music, theatre), Advising Coordinator, Fine Arts Project Thrust Advisor, and support staff work with students toward their matriculation according to curricular outlines. However, the student must remember that he or she is ultimately responsible for meeting all graduation requirements.

The goals of the office of Student Services and Advising are:
- To help students clarify their life and career goals
- To help students develop their educational plans
- To help students select appropriate courses
- To help students interpret institutional requirements
- To evaluate student progress toward established goals
- To facilitate total student development
- To foster the development of individual student’s talent to the fullest

Graduation Requirements

1. All degree programs require 120 credit hours, with the exception of Theatre Education track (129), Music Education degree (134) and Art Education degree (126).

2. General Education Requirements may be satisfied by (1) completing the University’s General Education Requirements, (2) completing the A.A. degree from a Florida Junior College, or Community College, or (3) completing the general education requirements from another Florida state university. General education courses transferred from other accredited institutions will be evaluated based on USF General Education equivalencies. The A.A. degree is in no way a requirement for acceptance into the College of Fine Arts (or into any one of its upper-level degree programs), or a requirement for graduation from the University.
admitted under the 1994/95 catalog must complete the General Distribution requirements.

3. Students admitted to the College of Fine Arts with transfer credits, or former students returning with credits dating ten or more years prior to admission (or readmission), will have those credits reviewed by the College and department/school and may be required to take specified competency tests.

4. All majors in the College of Fine Arts must take six fine arts credit hours in a field other than the major discipline. Transfer of special fine arts credits must be evaluated by an advisor. Special Fine Arts courses may be taken as S/U grading.

5. A maximum number of ROTC credits totaling no more than the maximum allowed in the Free Elective Area for each major may be counted toward all degrees.

6. A maximum of four credit hours of elective Physical Education credits taken at USF may be counted as general elective credit toward all degrees.

7. Students must satisfactorily complete the College Level Academic Skills Test CLAST and the writing and computation course requirement of 6A-10.30 (Gordon Rule).

8. Students applying for a B.A. degree must demonstrate competency in a foreign language as described under Foreign Language Competency Policy of this catalog.

9. For degree programs, see requirements listed under each department.

10. A minimum of 20 credit hours in the major department must be earned in residence. This requirement, however, may be waived by the department/school based on examination (e.g., portfolio review, audition). A student must also earn 30 of the last 60 hours of credits in residence at the University of South Florida. However, any course work to be taken and any credits to be earned outside of the University must have prior approval from the appropriate department/school and the college in order to apply these credits toward graduation. Waiver of prerequisite course work totaling no more than 12 credit hours in the major or Fine Arts College requirements is possible by demonstration of competence. Unless credit is awarded by approved official tests, i.e., A.P., CLEP, the credit hours must be made up according to departmental/school or college recommendations. The review for waiver is done by faculty committee. Specific questions concerning program requirements for all degrees in the College or other related problems, should be directed to the College of Fine Arts Coordinator of Advising.

College Policy for Academic Progress
The following criteria will serve as the bases for disenrollment from a major in the College of Fine Arts:
1. Grade-point average below 2.0 in the major.
2. Recommendation by major applied (studio) art, dance, music or theatre faculty with approval of respective department/school chairperson/director.
3. The department may recommend probationary status (rather than disenrollment) for one semester when academic progress is not maintained.

Contracts and Permission Procedures

Directed Studies Contracts:
All Directed Studies and other variable credit courses in the College of Fine Arts require contracts between students and instructors describing the work to be undertaken by the student and specifying the credit hours. These contracts are to be completed in quadruplicate and appropriately signed. It is the student's responsibility to obtain the necessary signatures and make the required distribution of all copies. Important: the student must have his/her signed copy of a contract at the time of registration.

S/U Grade Contracts:
The College of Fine Arts requires that any S/U grading agreement entered into between student and instructor be formalized by a contract in quadruplicate signed by the student and the instructor and distributed according to instructions.

"I" Grade Contracts:
Incompletes must be contracted for by mutual agreement between student and instructor, with the contract describing specifically the amount and nature of the work to be completed for the removal of the incomplete grade. This contract additionally specifies the date that the work will be due (within legal limits) for grading. Both the student and the instructor must sign this contract and the four copies must be distributed according to instructions. A student must not register for a course again to remove an "I" grade.

Permission Procedures:
Admission into some courses is possible only by consent of instructor (CI), consent of chairperson (CC), consent of adviser, or by audition or portfolio review. When such special permission is required, it will be the student's responsibility to obtain any required permission prior to registration.

S/U Grading in the College
1. Non-majors enrolled in courses in the College of Fine Arts may undertake such courses on an S/U basis with instructor approval. See Contracts and Permission Procedures for information concerning S/U Grade Contracts.

2. Credits earned by a non-major student with an "S" grade will not count toward the student's minimum major course graduation requirement should that student ultimately decide to become a major student in one of the four departments in the College. Instead, such credits earned with an "S" grade will be assigned to the student's Free Elective category (with the exception of music which will become non-countable).

3. Although Fine Arts majors may take coursework in their major as Free Electives, they are not entitled to the S/U grading option for these courses taken in their major subject area, even when specifically used or intended to be used as Free Electives.

4. In the College of Fine Arts, the only S/U graded courses available to a major student in his major subject area are those curriculum allowable courses designated S/U (that is, S/U only).

5. A maximum of 9 credit hours of S/U credits in non-major courses may apply towards a degree in the College of Fine Arts.

Dean's List Honors
See Academic Policies section for more information concerning the University's S/U Grading policy.

Interdisciplinary Study
There is no formal interdisciplinary arts degree offered in the College of Fine Arts. However, it is possible for a student to pursue such a program of study in the College by utilizing free electives allowed in the major program. A student may also choose a double undergraduate major in two departments within the College of Fine Arts as a means of interdisciplinary study. See the major advisor in the programs of particular interest.

Minors Program
The College of Fine Arts offers minor programs in Art, Dance, Music, and Theatre. Majors in the College of Fine Arts may pursue a minor in any certified minors program at USF except within the same department/school as the major. The requirements for these programs are located under the department/school academic program descriptions and also require that a minimum of eight hours be taken at USF. For University Minor Policy, consult that section in the catalog.
PROGRAMS AND CURRICULA

ART (ART)

- **Departmental Requirements for the B.A. Degree**

  The Art curriculum is designed to develop the student's consciousness of aesthetic and ideological aspects of art and its relationship to life and to assist students in the realization of personal ideas and imagery. Most B.A. recipients interested in college teaching, museum or gallery work, fine or commercial studio work pursue the extended discipline and experience offered at the graduate level.

  Although the Art program allows many possible courses of study, most art major students will select one area of emphasis chosen from the course offerings listed.

  The major concentrations, or areas of emphasis, available to undergraduate (B.A. seeking) art students are: Drawing, Painting, Sculpture, Ceramics, Electronic Intermedia (Computer Imaging, Video), Printmaking, Photography, and Art History and Theory. Art majors must receive a grade of "C" or better in all art courses.

  Transfer studio credit will be accepted on the basis of portfolio and transcript evaluation. The Art Department will accept all Florida state programs that are part of the "Common Prerequisites."

  For additional requirements see Graduation Requirements, College of Fine Arts.

### ART STUDIO B.A. DEGREE

#### I. Art Preparation (Requires a "C" or better in all courses taken to progress to courses numbered 3000 and up)

<table>
<thead>
<tr>
<th>Course</th>
<th>Hours</th>
<th>Notes</th>
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<tbody>
<tr>
<td>ARH 2050</td>
<td>3</td>
<td>History of Visual Art I</td>
</tr>
<tr>
<td>ARH 2051</td>
<td>3</td>
<td>History of Visual Art II</td>
</tr>
<tr>
<td>ARH 3001</td>
<td>4</td>
<td>Introduction to Art</td>
</tr>
<tr>
<td>ART 2201C</td>
<td>4</td>
<td>Fabrications</td>
</tr>
<tr>
<td>ART 2301C</td>
<td>3</td>
<td>Beginning Drawing</td>
</tr>
<tr>
<td>ART 2400C</td>
<td>3</td>
<td>Beginning Printmaking</td>
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<tr>
<td>ART 2510C</td>
<td>3</td>
<td>Beginning Painting</td>
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<tr>
<td>ART 2710C</td>
<td>3</td>
<td>Beginning Sculpture</td>
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<tr>
<td>ART 2110C</td>
<td>3</td>
<td>Beginning Ceramics</td>
</tr>
<tr>
<td>ART 2222C</td>
<td>3</td>
<td>Beginning Electronic Media</td>
</tr>
<tr>
<td>PGY 2401C</td>
<td>3</td>
<td>Beginning Photography</td>
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<tr>
<td><strong>TOTAL</strong></td>
<td><strong>14</strong></td>
<td>Hours</td>
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</tbody>
</table>

#### II. Beginning Studio Workshops

A minimum of 12 hours from the following Beginning Studio Workshops is required. These courses may not be repeated. These courses are pre-requisites to the upper level Advanced Studio Workshops and Studio Theme Courses.

<table>
<thead>
<tr>
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<tbody>
<tr>
<td>ART 4111C</td>
<td>3</td>
<td>Advanced Ceramics</td>
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<tr>
<td>ART 4520C</td>
<td>3</td>
<td>Advanced Painting</td>
</tr>
<tr>
<td>ART 4702C</td>
<td>3</td>
<td>Advanced Sculpture</td>
</tr>
<tr>
<td>ART 4223</td>
<td>3</td>
<td>Advanced Electronic Media</td>
</tr>
<tr>
<td>ART 4320C</td>
<td>3</td>
<td>Advanced Drawing</td>
</tr>
<tr>
<td>ART 4401C</td>
<td>3</td>
<td>Advanced Printmaking</td>
</tr>
<tr>
<td>PGY 4410C</td>
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<td>Advanced Photography</td>
</tr>
<tr>
<td><strong>TOTAL</strong></td>
<td><strong>12</strong></td>
<td>Hours</td>
</tr>
</tbody>
</table>

#### III. Advanced Studio Workshops

A minimum of 3 hours from Advanced Studio courses:

Pre-requisites may apply for some upper level studio courses (see catalog). Students may take up to 15 hours of Advanced Studio Workshops.

<table>
<thead>
<tr>
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<td>ART 4320C</td>
<td>3</td>
<td>Advanced Drawing</td>
</tr>
<tr>
<td>ART 4401C</td>
<td>3</td>
<td>Advanced Printmaking</td>
</tr>
<tr>
<td>PGY 4410C</td>
<td>3</td>
<td>Advanced Photography</td>
</tr>
<tr>
<td><strong>TOTAL</strong></td>
<td><strong>3</strong></td>
<td>Hours</td>
</tr>
</tbody>
</table>

#### IV. Theme Studios

A minimum of 6 hours from selected Theme Studio courses which are team taught by two or more faculty from different media disciplines. Topics may include space/time, the body, social context, mythologies, etc. May be repeated for up to 12 hours.

<table>
<thead>
<tr>
<th>Course</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>TOTAL</strong></td>
<td><strong>6</strong></td>
</tr>
</tbody>
</table>

### V. Art History

A minimum of 12 hours in the following history courses:

<table>
<thead>
<tr>
<th>Course</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>ARH 4100</td>
<td>4</td>
</tr>
<tr>
<td>ARH 4170</td>
<td>4</td>
</tr>
<tr>
<td>ARH 4200</td>
<td>4</td>
</tr>
<tr>
<td>ARH 4301</td>
<td>4</td>
</tr>
<tr>
<td>ARH 4350</td>
<td>4</td>
</tr>
<tr>
<td>ARH 4430</td>
<td>4</td>
</tr>
<tr>
<td>ARH 4450</td>
<td>4</td>
</tr>
<tr>
<td>ARH 4520</td>
<td>4</td>
</tr>
<tr>
<td>ARH 4530</td>
<td>4</td>
</tr>
<tr>
<td>ARH 4796</td>
<td>4</td>
</tr>
</tbody>
</table>

**TOTAL 12 hours**

*4 hours may be taken in critical studies seminars either ARH 4790 or ARH 4796

**ARH 4450 is required of all majors and should be taken simultaneously with the Advanced Studio Workshops and Theme Studios.

### VI. Additional Requirements

<table>
<thead>
<tr>
<th>Course</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>ART 4955</td>
<td>2-4</td>
</tr>
<tr>
<td>ART 3939</td>
<td>2</td>
</tr>
<tr>
<td>Expanded Contexts***</td>
<td>2-4</td>
</tr>
</tbody>
</table>

**TOTAL 6 hours**

*Required of all majors

**Professional Practice. Required of all majors. Should be taken during the student’s junior year.

***Required of all majors (New York City Program, Paris Program, London Program, Public Art, Museum Internships, Community Art, Artists Internships/Apprenticeships)

### VII. Recommendations

Students are encouraged to take additional credits in the Studio Workshops and Theme Studio Courses to fulfill art electives. Honors studio courses are offered every semester and can be used to complete studio electives.

**TOTAL ART HOURS 53 hours**

### Total Semester Hours for the B.A. degree in Art Studio:

<table>
<thead>
<tr>
<th>Category</th>
<th>Hours</th>
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</thead>
<tbody>
<tr>
<td>General Education</td>
<td>36</td>
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<tr>
<td>Exit Requirements</td>
<td>9</td>
</tr>
<tr>
<td>Free Electives (Max. 6 hrs ART)</td>
<td>16</td>
</tr>
<tr>
<td>Special Requirements</td>
<td>6</td>
</tr>
<tr>
<td>Art Requirements</td>
<td>53</td>
</tr>
</tbody>
</table>

**TOTAL 120 Hours**

Note: All Students earning a B.A. degree in Fine Arts must complete the Foreign Language Requirement.

### ART HISTORY B.A. DEGREE

- **I. Art Preparation (Requires a "C" or better in all courses taken to progress to courses numbered 3000 and up)

<table>
<thead>
<tr>
<th>Course</th>
<th>Hours</th>
<th>Notes</th>
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<tbody>
<tr>
<td>ARH 2050</td>
<td>3</td>
<td>History of Visual Art I</td>
</tr>
<tr>
<td>ARH 2051</td>
<td>3</td>
<td>History of Visual Art II</td>
</tr>
<tr>
<td>ARH 3001</td>
<td>4</td>
<td>Introduction to Art</td>
</tr>
<tr>
<td>ART 2201C</td>
<td>4</td>
<td>Fabrications</td>
</tr>
<tr>
<td>ART 2301C</td>
<td>3</td>
<td>Beginning Drawing</td>
</tr>
<tr>
<td>ART 2400C</td>
<td>3</td>
<td>Beginning Printmaking</td>
</tr>
<tr>
<td>ART 2510C</td>
<td>3</td>
<td>Beginning Painting</td>
</tr>
<tr>
<td>ART 2710C</td>
<td>3</td>
<td>Beginning Sculpture</td>
</tr>
<tr>
<td>ART 2110C</td>
<td>3</td>
<td>Beginning Ceramics</td>
</tr>
<tr>
<td>ART 2222C</td>
<td>3</td>
<td>Beginning Electronic Media</td>
</tr>
<tr>
<td>PGY 2401C</td>
<td>3</td>
<td>Beginning Photography</td>
</tr>
<tr>
<td><strong>TOTAL</strong></td>
<td><strong>12</strong></td>
<td>Hours</td>
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</table>

#### II. Art History Required Courses

<table>
<thead>
<tr>
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<th>Hours</th>
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<tr>
<td>ARH 2050</td>
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<tr>
<td>ARH 2051</td>
<td>3</td>
</tr>
<tr>
<td>ARH 3001</td>
<td>4</td>
</tr>
<tr>
<td>ART 2201C</td>
<td>4</td>
</tr>
<tr>
<td><strong>TOTAL</strong></td>
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</tr>
</tbody>
</table>

### III. Art History Survey

<table>
<thead>
<tr>
<th>Course</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>ARH 4100</td>
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<td>ARH 4170</td>
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<td>ARH 4200</td>
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<tr>
<td>ARH 4301</td>
<td>4</td>
</tr>
<tr>
<td>ARH 4350</td>
<td>4</td>
</tr>
<tr>
<td>ARH 4430</td>
<td>4</td>
</tr>
<tr>
<td>ARH 4450</td>
<td>4</td>
</tr>
<tr>
<td>ARH 4520</td>
<td>4</td>
</tr>
<tr>
<td>ARH 4530</td>
<td>4</td>
</tr>
<tr>
<td><strong>TOTAL</strong></td>
<td><strong>12</strong></td>
</tr>
</tbody>
</table>

*ARH 4450, 20th Century is required of all art history majors.

Plus: Minimum of 12 hours in the following history courses:

### III. Art History Survey

<table>
<thead>
<tr>
<th>Course</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>ARH 4100</td>
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<tr>
<td>ARH 4170</td>
<td>4</td>
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<td>ARH 4200</td>
<td>4</td>
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<tr>
<td>ARH 4301</td>
<td>4</td>
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<tr>
<td>ARH 4350</td>
<td>4</td>
</tr>
<tr>
<td>ARH 4430</td>
<td>4</td>
</tr>
<tr>
<td>ARH 4450</td>
<td>4</td>
</tr>
<tr>
<td>ARH 4520</td>
<td>4</td>
</tr>
<tr>
<td>ARH 4530</td>
<td>4</td>
</tr>
<tr>
<td><strong>TOTAL</strong></td>
<td><strong>12</strong></td>
</tr>
</tbody>
</table>
### IV. Art History Critical Studies

<table>
<thead>
<tr>
<th>Course</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>ARH 4796 Critical Studies in Art History</td>
<td></td>
</tr>
</tbody>
</table>

(Total 12 hours)

### V. Plus

- Expanded Contexts: required of all majors
  - 2 hours (New York City Program, Paris Program, Public Art, Museum Internships, Community Art, Artists Internship/Apprenticeships)

(Total 2 hours)

### VI. Recommendations

Students are encouraged to take additional credits in Art History critical studies courses and Art History survey courses. The courses offered in Photo History and Film and the Avant Garde are recommended to Art History majors as courses to be used to complete Art History electives.

(TOTAL ART HISTORY 48 hours)

#### Total semester Hours for the B.A. degree in Art History

<table>
<thead>
<tr>
<th>Component</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>General Education</td>
<td>36</td>
</tr>
<tr>
<td>Exit Requirements</td>
<td>9</td>
</tr>
<tr>
<td>Free Elective</td>
<td>21</td>
</tr>
<tr>
<td>(Max. 10 hrs in Art)</td>
<td></td>
</tr>
<tr>
<td>Special Requirements</td>
<td>6</td>
</tr>
<tr>
<td>Art Requirements</td>
<td>48</td>
</tr>
</tbody>
</table>

(Total 120 hours)

*Note: All Students earning a BA degree in Fine Arts must complete the Foreign Language Requirement.*

#### • Requirements for the Academic Minor in Art

Course distribution and requirements:

**Studio Concentration**

- Total number of hours required: 23 hours minimum

<table>
<thead>
<tr>
<th>Component</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>ARH 2050 History of Visual Art I</td>
<td>3</td>
</tr>
<tr>
<td>ARH 2051 History of Visual Art II</td>
<td>3</td>
</tr>
<tr>
<td>ARH 3001 Introduction to Art</td>
<td>4</td>
</tr>
<tr>
<td>ART 2201C Fabrications</td>
<td>4</td>
</tr>
</tbody>
</table>

(Total 14 hours)

**Art Studio**

- Beginning Studio Workshop: 3 hours
- Advanced Studio Workshop: 3 hours
- Theme Studios: 3 hours

**OR**

- Beginning Studio Workshop: 6 hours
- Advanced Studio Workshop: 3 hours
- Theme Studio: 3 hours

(Total 9 hours)

**Art History Concentration**

- Total number of hours required: 22 hours minimum

<table>
<thead>
<tr>
<th>Component</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>ARH 2050 History of Visual Art I</td>
<td>3</td>
</tr>
<tr>
<td>ARH 2051 History of Visual Art II</td>
<td>3</td>
</tr>
<tr>
<td>ARH 3001 Introduction to Art</td>
<td>4</td>
</tr>
<tr>
<td>ART 2201C Fabrications</td>
<td>4</td>
</tr>
</tbody>
</table>

(Total 14 hours)

**II. Art History Survey**

- 20th Century Art: 4 hours
- Art History Survey: 4 hours

(Total 8 hours)

#### Prerequisites (State Mandated Common Prerequisites)

Students should complete the following **prerequisite courses** listed below at the lower level prior to entering the University. If these courses are not taken at the community college, they must be completed before the degree is granted. Unless stated otherwise, a grade of “C” is the minimum acceptable grade. If students are coming to the University from a community college, the following prerequisite courses will be accepted as meeting lower level requirements.

- ART 1201/1202 Design I and Design II
- ART 1300/1301 Drawing I and Drawing II
- ART 2050/2051 Art History Survey I and Art History Survey II
- ART 2XXX Any introductory media course, 6-9 semester hours

#### ART EDUCATION

- **Requirements for the B.S. Degree (ARE)**

The Art Education curriculum is designed to serve students who wish to develop their artistic competence and have a commitment to help develop a similar artistic potential in other people.

Art Education majors may specialize in one area of the Art Department or become generalists by taking various studio classes.

For other degree requirements not listed below, please see the College of Education requirements and the University's General Education and graduation requirements.

In addition to the general distribution and professional education requirements, the following courses constitute a program of study:

**Art Education (15 credit hours)**

- ARE 3044 ARE 4443
- ARE 3354 ARE 4440 ARE 4642

In these courses students will have the opportunity to work at the elementary school and high school levels.

**Specialization (36 cr. hours)**

- ART 2400C ART 2510C ART 2701C
- ART 3110C ART 4402C ART 4450
- Art Studio Electives approved by advisor
- Art History Elective

**Prerequisites (State Mandated Common Prerequisites)**

Complete the A.A. degree at the community college. Some courses required for the major may also meet General Education Requirements thereby transferring maximum hours to the university. If students transfer without an A.A. degree and have fewer than 60 semester hours of acceptable credit, they must meet the university’s entering freshman requirements including ACT or SAT test scores, GPA, and course requirements.

Courses that transfer: art history, art studio - evaluated by College of Fine Arts by portfolio only.

Students should complete the following **prerequisite courses** listed below at the lower level prior to entering the University. If these courses are not taken at the community college, they must be completed before the degree is granted. Unless stated otherwise, a grade of “C” is the minimum acceptable grade.

- EDF 1005 Introduction to Education
- EDG 2701 Teaching Diverse Populations
- ART 2222 Beginning Electronic Media
- or EME 2040 Introduction to Educational Technology

(Equivalent course or demonstrated competency may be substituted)

If students are coming to the University from a community college, the following prerequisite courses will be accepted as meeting lower level requirements.

- ART 1300/1301 Drawing I and Drawing II
- ART 2050/2051 Art History Survey I & Art History Survey II
- Plus two of the following courses:
  - ART X510 Painting
Visitng Artists and Scholars
The Art Department is widely known for the consistent level of excellence of its programs. Aside from the contributions of its permanent staff, and to insure the continuing expansion of the art field, and the community. The exhibition, educational mission, and provides students and the community with frequent opportunities for expanding aesthetic experiences.

Through intensive study in dance technique, creative studio studies and dance theory, students are prepared for careers in performance, choreography, and education. Additional preparation in graduate programs may lead to opportunities in Dance Sciences/Medicine, Dance Therapy, Arts Management, Performance, Choreography, or Interdisciplinary Studies.

Admission to the Dance Department is contingent upon acceptance by the University and successful completion of a performance audition. Students must complete the audition prior to Orientation and registration for Dance courses.

**Requirements for the B.F.A. Degree Performance Concentration**
The BFA in Dance Performance, (Ballet and Modern) offers professional preparation, which includes extensive study in Studio Technique, Choreographic Studies and Dance Theory. The focus of this degree is the development of dancers who will enter the professional world of dance/arts as performers and choreographers. Beyond the expectations for continuing opportunities for performance, students selecting the BFA will develop and present solo and group Senior Choreographic Projects.

**Modern Dance Focus**

**Studio Technique (28 semester hours)**
- DAA 3209 Ballet III 6
- DAA 3109 Modern III 6
- DAA 4111 Modern IV 8
- DAA 3394 World Dance 2

**Elective Dance Technique:**
- DAA 3394 World Dance 2

**Creative Studio (17 semester hours)**
- DAA 3624 Dance Improvisation 2
- DAA 3614 Choreography I 2
- DAA 3615 Choreography II 2
- DAA 4616 Choreography III 2
- DAA 4617 Choreography IV 2
- DAA 3480 Jr. Performance Project 1
- DAA 4687 Performance/Repertory 5
- DAA 4694 Senior Choreographic Project 1

*Concurrent enrollment in Dance Technique*

**Ballet Focus**

**Studio Technique (30 semester hours)**
- DAA 3209 Ballet III 6
- DAA 4111 Modern IV 8
- DAA 3394 World Dance 2
- DAA 3294 Ballet Variations/Pointe 2
- DAA 3109 Modern III 6
- DAA 3394 World Dance 2

**Elective Dance Technique:**
- DAA 3394 World Dance 2

**Creative Studio Studies (17 semester hours)**
- DAA 3624 Dance Improvisation 2
- DAA 3614 Choreography I 2
- DAA 3615 Choreography II 2
- DAA 4616 Choreography III 2
- DAA 4617 Choreography IV 2
- DAA 3480 Jr. Performance Project 1
- DAA 4687 Performance/Repertory 5
- DAA 4694 Senior Choreographic Project 1

*Concurrent enrollment in Dance Technique*
**B.A. Degree in Dance Studies**

The B.A. in Dance Studies is designed to provide students with a comprehensive core of study in dance (Technique, Creative Studio Studies, Theory) while encouraging the development of an individualized program of study through the selection of general education requirements as well as a focused selection of elective courses. The selection of electives should be designed to provide each student with the maximum value of a liberal arts education within a focused area of study. A student with additional interest in another field (i.e. African Studies, Anthropology, Communications, Women’s Studies, Theatre, History, Religious Studies, Psychology, etc.) would complete focused study in that area along with the core of study in dance. Each student would be required to develop a final independent project incorporating the dance with his or her focused study.

**Studio Technique (20 semester hours)**
- DAA 3108 Modern II 6
- DAA 3208 Ballet II 6
- DAA 3109 Modern III 6
- or
- DAA 3209 Ballet III 6
- DAA 3394 World Dance 2

**Creative Studio Studies (13 semester hours)**
- DAA 3624 Dance Improvisation 2
- DAA 3614 Choreography I 2
- DAA 3615 Choreography II 2
- DAA 4616 Choreography III 2
- DAA 4617 Choreography IV 2
- DAA 3480 Jr. Performance Project 1
- DAA 3686 Performance 1
- DAA 4906 Independent Research Project 1

**Dance Theory (23 semester hours)**
- DAA 2160 Entry Seminar 2
- DAA 3584 Practicum in Dance 1
- TPA 2223 Theatrecrafts: Lighting 3
- DAA 3614 Music for Dance I 2
- DAA 3615 Music for Dance II 2
- DAA 3714 Dance Kinesiology 3
- DAA 4134 Dance History Through the 19th Century 3
- DAA 4135 20th Century Dance History 3
- DAA 4340 Dance Pedagogy: Secondary Curriculum and Methods 3
- or
- DAA 4310 Dance Pedagogy: Pre-School and Elementary Methods 3
- DAN 4181 Dance Senior Seminar 2
- Non-Dance Electives: 7

**B.S. Degree in Dance Education**

The Dance Education Curriculum is designed for students who wish to develop a high level of expertise in dance and have a commitment to the development of individual potential in others. The curriculum is designed to meet the requirements for certification in Dance Education K-12 in the State of Florida.

Admission to Dance Education is contingent upon application to the program, successful audition in both Ballet and Modern Dance Technique, and acceptable academic standards (See University Requirements. Note: Students on academic probation or probation may not be considered for Dance Education Specialization until successful completion of their Sophomore year.)

Dance Education Students are expected to maintain a 3.0 in all Dance Major courses and an overall 2.5 GPA to be admitted to the College of Education/Professional Preparation Courses of Study. Students are expected to maintain this grade point average through the completion of the Internship in Dance Education.

In order to be admitted to the Dance Education Specialization, students must participate in a selective admissions procedure. Enrollment in the program is limited and students can only enter during the Semester I of each year. In addition to applying to the University, students must also apply directly to the Department of Dance before March 1 for priority admission consideration. Students applying after May 1 will be accepted only on a space available basis. Requests for admission to the Dance Education Specialization should be directed to:

Dr. Timothy Wilson, Chairman
Department of Dance
College of Fine Arts
University of South Florida
4202 E. Fowler Ave. FAD 204
Tampa, FL 33620

**Dance Education Prerequisites (9 semester hours)**
- EDF 2005 Introduction to Education 3
- EDF 2701 Teaching Diverse Populations 3
- EME 2040 Introduction to Educational Technology 3
### Professional Preparation

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>EDF 3122</td>
<td>Learning and the Developing Child</td>
<td>4</td>
</tr>
<tr>
<td>EDF 3214</td>
<td>Human Development and Learning</td>
<td>3</td>
</tr>
<tr>
<td>EDF 3604</td>
<td>Social Foundations of Education</td>
<td>3</td>
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**OR**

<table>
<thead>
<tr>
<th>Course Code</th>
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<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>EDF 3542</td>
<td>Philosophy of Education</td>
<td>4</td>
</tr>
<tr>
<td>EEX 4070</td>
<td>Integration of Exceptional Students</td>
<td>2-3</td>
</tr>
<tr>
<td>EDF 4430</td>
<td>Measurement for Teachers</td>
<td>3</td>
</tr>
<tr>
<td>DAE 4310</td>
<td>Dance Pedagogy: Secondary Curriculum and Methods</td>
<td>3</td>
</tr>
<tr>
<td>DAE 4940</td>
<td>Internship Dance Education</td>
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</tr>
<tr>
<td>DAE 4936</td>
<td>Senior Seminar in Dance</td>
<td>2</td>
</tr>
</tbody>
</table>

### Dance Minor Program

The Dance Minor is designed to provide students with a scope of experiences in dance which include studio technique, creative studio studies and dance theory. The student selecting a Dance Minor should arrange to meet with the academic advisor in dance.

**Studio Technique (10 semester hours)**

Select 10 credits from:

- DAA 2205 Ballet I 2
- DAA 3208 Ballet II 3
- DAA 3209 Ballet III 3
- DAA 4211 Ballet IV 3
- DAA 2105 Modern Dance I 2
- DAA 3108 Modern Dance II 3
- DAA 4109 Modern Dance III 3
- DAA 4111 Modern Dance IV 4
- DAA 2504 Jazz Dance 2
- DAA 4930 Special Topics in Dance 2

(Studio Dance courses may be repeated only once toward the Dance Minor.)

**Creative Studio Studies (4 semester hours)**

Select 4 credits from:

- DAA 3624 Dance Improvisation 2
- DAA 3614 Choreography I 3
- DAA 3615 Choreography II 3

**Dance Theory (6 semester hours)**

Select 6 credits from:

- DAN 2100 Introduction to Dance 3
- DAN 4134 Dance History Through the 19th Century 3
- DAN 4135 20th Century Dance History 3

**Dance Electives (4 semester hours)**

**TOTAL 24**

### Department Policy For Academic Progress

Prospective majors must contact the Dance Department to arrange for an audition prior to being permitted to register for classes. Acceptance into all major technique classes is by faculty audition. Acceptance into each of the degree programs [B.F.A.; B.A.; B.S.] requires acceptable technical proficiency, academic standards commensurate with University guidelines, and recommendation of the faculty. All students are required to participate in production practicum during their first year in the program. Junior Dance Majors are required to perform in a work created by one of the Seniors.

**B.F.A.:** Seniors are required to choreograph a group work and choreograph and/or perform a solo in fulfillment of the requirement for Senior Choreographic Project. Senior Choreographic Project is designed to occur over two semesters.

**B.A.:** Seniors are required to develop an independent creative/research project in consultation with a faculty mentor.

Senior Creative/Research Project may occur over two semesters.

**B.S.:** Seniors are required to serve a Teaching Internship in the Public Schools under the supervision of a public school dance teacher and a university faculty mentor. The Internship is designed to be completed in one semester with seven weeks at the Elementary Level and seven weeks at the Secondary Level.

### Critiques

1. All students will be evaluated periodically by the faculty and critiqued each semester and will participate in progress conferences with the faculty.
2. If a student evidences deficiency in some area or in continuing progress toward the degree, the student may be placed on probation within the Department.
3. Failure to make satisfactory progress after being placed on probation shall constitute grounds for Departmental recommendation to drop and discontinue the major.

### Minimum Grade for Dance Courses

A student must receive a "C" grade or better in required courses for Dance Majors. Should a student fail to do so, the course(s) in which the student receives "D" or "F" must be repeated and a "C" grade or better earned. Note: The student choosing a Dance Minor must achieve a “C” or better in all courses applied to the minor in dance.

### Additional Standards

In addition to meeting the specific requirements and standards discussed above, the student and advisor will periodically evaluate the student’s general progress. Students are required to meet with the Academic Advisor in Dance each semester. An unsatisfactory rating in one or more of the following areas could place the student on probation. A student on probation is given a specific amount of time to achieve a satisfactory rating before being dropped from the major program. The criteria include:

1. Adequate academic progress.
2. Adequate technical skills and adaptability.
3. "B" average in major studio classes.
4. Good health which includes adequate control of body weight.

Class probation and department probation require review, i.e., reinstatement in good standing or recommendation to drop major.

For other non-major requirements see both Fine Arts College requirements and the University's General Distribution and graduation requirements.

### Prerequisites (State Mandated Common Prerequisites)

Students should complete the A.A. degree at the community college. Some courses required for the major may also meet General Education Requirements thereby transferring maximum hours to the university. If a student wishes to transfer without an A.A. degree and has fewer than 60 semester hours of acceptable credit, the student must meet the university’s entering freshman requirements including ACT or SAT test scores, GPA, and course requirements. Please be aware of the immunization, foreign language, and continuous enrollment policies of the university. This is a non-limited access program with the above courses recommended.

Students should complete the following prerequisite courses listed below at the lower level prior to entering the University. If these courses are not taken at the community college, they must be completed before the degree is granted. Unless stated otherwise, a grade of "C" is the minimum acceptable grade. If students are coming to the University from a community college, the following prerequisite courses will be accepted as meeting lower level requirements.

- DAN 3614 Music for Dance I or DAN 3615 Music for Dance II
- TPA 2200 Theatrecrafts: Stagecraft or TPA 2223 Theatrecrafts: Lighting
- TPA 2200 Theatrecrafts: Costume
General Requirements

- The B.M. Degree (Performance, Composition and Jazz Studies)

The music curriculum is designed for students in the performance and/or composition of music. Candidates for a major in music are required to pass an entrance audition in their respective performance areas. Composition candidates are required to submit appropriate scores and/or tapes of their compositions for faculty appraisal. All students admitted to the degree program must pass a music theory diagnostic examination prior to scheduling music theory classes. Students may obtain dates and times for these examinations from the School of Music.

Academic programs offered in the Bachelor of Music degree include the areas of Performance (voice, organ, piano, piano pedagogy, and orchestral instruments), Composition, and Jazz Studies (composition and performance).

General Requirements

All students seeking a Bachelor of Music degree are required to (1) complete successfully the piano proficiency (jazz piano proficiency required instead for all jazz majors) and music theory-history-literature requirements; (2) present a partial recital during the junior year (except composition majors); (3) present a full recital during the senior year (except music education majors); (4) present a record of satisfactory recital attendance through registration in MUS 2010 (see the music requirements for MUS 2010 as set by the music faculty). Students must be enrolled in applied music studio during the semester of the recital. Other procedures are mandated through the Student Handbook of the School of Music. Exceptions to all departmental procedures must be authorized through the Director of the School of Music.

Promotion to the next higher level in applied music is made only upon the recommendation of a performance jury conduct-
Additional Requirements for Specific Concentrations

### Performance Concentration
A total of 24 credit hours of applied music major is required with a minimum of 6 hours to be completed at the 4000 level and concurrent registration in MUS 2010 (Recital Attendance).

Performance majors in voice are required to "elect" to enroll in MUS 3201 for a total of 3 credits as a part of the Music Electives and MUS 3501 for 2 credits as a part of the Ensemble hours. Additionally, there is a program exit requirement of earned credit or the equivalent in beginning French, German, and Italian languages.

Performance majors in piano are required to "elect" to enroll in MUS 4640 for 4 credits as a part of the Music Electives. The following requirements for the piano pedagogy emphasis are to be taken as a part of the Music Electives: 
- **MUS 4640 (4)**  
- **MUS 4641 (4)**

Junior and senior recital requirements may be fulfilled in one of the following ways: (1) lecture/recital, (2) ensemble performance, (3) recital.

### Jazz Studies Concentration
#### Performance Emphasis
The following courses are required in addition to the core requirements:
- **MUT 3663 (2)**  
- **MUT 3664 (2)**

Applied music (major) through the 3000 level (min. of 18 hours).

The first 4 semesters and a sophomore level jury are under the guidance of the traditional applied faculty for all wind students, after which they will move from that studio to a jazz studies studio for their final semesters of applied studies.

Jazz piano proficiency required.

### Composition Emphasis
The following courses are required in addition to the core requirements:
- **MUC 2221 (6)**  
- **MUC 4204 (3)**  
- **MUC 4203 (3)**

Elective Composition (6)

Applied music (principal) with a minimum of 4 hours at the 2000 level.

Jazz piano proficiency required.

### Composition Concentration
All students seeking a degree in music with a composition concentration are required to fulfill the core composition requirements (with the approval of the entire composition faculty) in one of the following ways: (a) a complete public performance of works by the student composer, (b) the public performance of several compositions in various concerts throughout the composer’s senior year, (c) the formal presentation to the composition faculty of an extensive portfolio of compositions plus the public performance of at least one of these works during the senior year, or (d) in other ways designated by the composition faculty.

Applied Music (Principal) (8)

A minimum of 8 credit hours of applied music is required with a minimum of 4 credit hours at the 2000 level and concurrent registration in MUS 2010 (recital attendance).

Composition Courses (24)
- **MUC 2301 (3)**  
- **MUC 2221 (3)**  
- **MUC 3231 (3.3)**

- **MUC 3401 (3)**  
- **MUC 3402 (3)**  
- **MUT 4241 (3)**

- **MUT 4311 (2)**  
- **MUT 4312 (2)**

For other degree requirements for all the above concentrations, see Fine Arts College requirements and the University's General Education and graduation requirements.

**Prerequisites (State Mandated Common Prerequisites)**

Students should complete the A.A. degree at the community college. Some courses required for the major may also meet General Education Requirements thereby transferring maximum hours to the university. If a student wishes to transfer without an A.A. degree and has fewer than 60 semester hours of acceptable credit, the student must meet the university’s entering freshman requirements including ACT or SAT test scores, GPA, and course requirements. Please be aware of the immunization, foreign language, and continuous enrollment policies of the university. This is a non-limited access program with the above courses recommended.

A music theory placement examination will be administered prior to initial registration in the music theory course sequence. This examination is diagnostic and is used for advising purposes. Auditions for admission, level-ranking, and determination of USF credit hour requirements in applied study in the music performance program must be arranged through the School of Music. Secondary piano must be demonstrated by audition or the student may elect to enroll in the appropriate keyboard skills class(es). Credit hours in piano are not required. Other secondary instruments will not apply toward performance or composition programs but may be applicable toward the Music Education degree (see Music Education program).

Students should complete the following prerequisite courses listed below at the lower level prior to entering the University. If these courses are not taken at the community college, they must be completed before the degree is granted. Unless stated otherwise, a grade of “C” is the minimum acceptable grade. If students are coming to the University from a community college, the following prerequisite courses will be accepted as meeting lower level requirements:

- **MUT 1111 Music Theory**  
- **MUT 1112 Music Theory**  
- **MUT 2116 Music Theory**  
- **MUT 1241 Aural Theory**  
- **MUT 1211, 1222, 2126, or 2127**  
- **MUT 2117 Music Theory**  
- **MUT 1242 Aural Theory**  
- **MUT 1211, 1222, 2226, 2227, 1261, 1261, 2266, 2267, 1271, 1272, 2276, or 2277**  
- **MUT 1247 Advanced Aural Theory**  
- **MUT 2246 Advanced Aural Theory**  
- **MUT 1227**

**MUSXXX Chamber Music Ensemble, 4 semester hours**

**MVK 1111, 1112, and 2122**

**MUT 1121, 1122, 2126, or 2127**

**MUT 1211, 1222, 2126, 2127, 1261, 1261, 2266, 2267, 1271, 1272, 2276, or 2277**

**MUT 1242 Aural Theory**  
- **MUT 1211, 1222, 2226, 2227, 1261, 1261, 2266, 2267, 1271, 1272, 2276, or 2277**

**MUT 2246 Advanced Aural Theory**  
- **MUT 1227**

**MUNXX Secondary Applied Music Courses, 2-4 semester hours**

**MVK1XXX Secondary Applied Music Courses, 2-4 semester hours**

**Secondary Piano Proficiency by Examination**

**MVX 2XX Secondary Applied Music Courses, 2-4 semester hours**

**Electives: Music credits beyond those required may be used as program electives.**

### MUSIC EDUCATION

- **Requirements for the B.S. Degree (MUE):**
  The music education curriculum is designed to serve students who wish to develop a high level of musical expertise and have a commitment to help develop musical potentials in other people.

  All students seeking a degree in music education are required to pass an audition in their respective performance area and to take a music theory placement test prior to registering for any music theory class. Students may obtain the dates for these examinations from the music office.
Music Education majors must take 3 hours in the Art, Dance, or Theatre departments. Students should make certain that this 3-hour course is certified in the Fine Arts Perspectives of the Liberal Arts Curriculum in order to graduate within statutory limits/guidelines.

- **Requirements for a Minor in Music**
  (19-23 semester hour minimum)

  Students seeking a minor in music may choose from three concentrations: (1) History-Theory-Literature, (2) Applied Medium and (3) Composition. Each of the concentrations will include the same core curriculum consisting of 11 hours. A minimum of 8 hours for the minor must be earned at USF.

  1. **Core Curriculum:**
     - Music Theory (8)
     - Introduction to Music Literature (3)
     - Music History (3)

  2. **Optional Concentrations:**
     a. History-Theory-Literature
        - An audition is not required.
        - Music History and/or Theory and/or Literature (7-8)
        - Music Ensemble (2)
     b. Applied Music (Principal)
        - Acceptance by audition into the School of Music is required.
        - Performance Studio courses which may include up to 2 semester hours of class-studio (6-8)
        - Music Ensembles (2-4)
        - MUS 2010 Recital Attendance concurrent with applied music (principal) registration.
        - Faculty jury recommendations for sophomore-level studio study (minimum)
     c. Composition
        - Acceptance by audition into the School of Music is required.
        - Introduction to Electronic Music (2)
        - Composition Studio courses which may include one course of orchestration (6)
        - Music Ensemble (1)

  3. **Admission** to all composition and studio applied music courses is by audition and/or permission of the instructor. Studio courses may be repeated for credit as stipulated in the catalog.

**Prerequisites (State Mandated Common Prerequisites)**

Students should complete the A.A. degree at the community college. Some courses required for the major may also meet General Education Requirements thereby transferring maximum hours to the university. If a student wishes to transfer without an A.A. degree and has fewer than 60 semester hours of acceptable credit, the student must meet the university’s entering freshman requirements including ACT or SAT test scores, GPA, and course requirements. Please be aware of the immunization, foreign language, and continuous enrollment policies of the university.

A music theory placement examination will be administered prior to initial registration in the music theory course sequence. Auditions for admission, level-ranking, and determination of USF credit hour requirements in applied study in the music performance program must be arranged through the School of Music. Secondary piano proficiency must be demonstrated by audition or the student may elect to enroll in the appropriate keyboard skills class(ies). Credit hours in piano are not required. Other secondary instruments will not apply toward performance or composition programs but may be applicable toward the Music Education degree (see Music Education program).

Students should complete the following **prerequisite courses** listed below at the lower level prior to entering the University. If these courses are not taken at the community college, they must be completed before the degree is granted. Unless stated otherwise, a grade of "C" is the minimum
**College of Fine Arts**

**UNIVERSITY OF SOUTH FLORIDA - 1999/2000 UNDERGRADUATE CATALOG**

Acceptable grade. If students are coming to the University from a community college, the following prerequisite courses will be accepted as meeting lower level requirements.

**EDF 1005 Introduction to Education**

**EME 2040 Introduction to Educational Technology**

(Equivalent course or demonstrated competency may be substituted.)

- **MUT 1111 Music Theory**
- **or MUT 1121, 1122, 2126, or 2127**
- **MUT 1112 Music Theory**
- **or MUT 1121, 1122, 2126, or 2127**
- **MUT 2116 Music Theory**
- **or MUT 1121, 1122, 2126, or 2127**
- **MUT 2117 Music Theory**
- **or MUT 1121, 1122, 2126, or 2127**
- **MUT 1241 Music Theory**
- **or MUT 1121, 1122, 2126, or 2127**
- **MUT 1242 Music Theory**
- **or MUT 1121, 1122, 2126, or 2127**
- **MUT 1241 Aural Theory**
- **or MUT 1221, 1222, 2226, 2227, 1261, 2266, 2267, 1271, 1272, 2276, or 2277**
- **MUT 1242 Aural Theory**
- **or MUT 1221, 1222, 2226, 2227, 1261, 2266, 2267, 1271, 1272, 2276, or 2277**
- **MUT 2245 Advanced Aural Theory**
- **or MUT 1221, 1222, 2226, 2227, 1261, 2266, 2267, 1271, 1272, 2276, or 2277**
- **MUT 2247 Advanced Aural Theory**
- **or MUT 1221, 1222, 2226, 2227, 1261, 2266, 2267, 1271, 1272, 2276, or 2277**
- **MVX 1X1X Secondary Applied Music Courses**, 2-4 semester hours
- **MVX 2X2X Secondary Applied Music Courses**, 2-4 semester hours
- **MUNXXXX Chamber Music Ensemble**, 4 semester hours
- **Secondary Piano Proficiency by Examination**
- **or MVK 1111, 1112, and 2122**
- **or MVK 1111r, 1112r, 2121r, and 2121r**
- **or MVK 1211 and 2221**

**Admission Requirements to the University Program of Study**

Admission will require an overall GPA of 2.5 with a minimum score of 440 on the SAT (550 if taken after April 1, 1995) or 20 on the ACT. Those with an overall 2.25 GPA will be acceptable with a minimum score of 940 on the SAT (1030 if taken after April 1, 1995) or 20 on the ACT. Official grade forgiveness will be used as appropriate.

Professional education courses taken at the community college will transfer as general electives.

**Introduction/General Psychology and Sociology** are recommended.

Music students must be accepted by audition in their performance area by the School of Music. A music theory placement examination will be administered prior to initial registration in the music theory core sequence.

**The Faculty**

The music faculty is made up of outstanding musicians and scholars whose talents and achievements provide a unique educational resource for all music students. Faculty ensembles such as the Faculty Chamber Players and the Faculty Jazz Combo provide an important musical contribution to campus and Tampa area cultural life, and many music faculty perform in professional music ensembles across west central Florida.

**Student Organizations**

Sigma Alpha Iota, Phi Mu Alpha Sinfonia, and Pi Kappa Lambda honorary music organizations maintain active chapters in the School of Music. Additionally, chapters of the College Music Educators National Conference and International Association of Jazz Educators provide an important liaison with other professional musicians and teachers.

**Financial Aid**

A significant number of students studying in the School of Music qualify for some degree of financial assistance. Financial aid is offered on the basis of talent, academic promise, and need. Students awarded financial assistance from the School of Music need not pursue a degree in music, but must follow specific guidelines concerning the awarding of monetary assistance. These guidelines are available from the Director of the School of Music. Write to the School of Music for specific dates each year. In addition to general university and School of Music scholarships, there are a number of donated awards. Among these are the Dawn Zimmerman Flute Scholarship, Mary Corey Bogdonas Scholarship, Steve Penovich Scholarship, Marjorie Roe Cello Scholarship, Zbar Piano Award, and the Virginia A. Bridges Music Education Award.

**Visiting Scholars, Artists, and Artists-in-Residence**

The School of Music utilizes guest composers, conductors, and performing musicians to enhance its offerings in terms of teaching faculty, forum appearances, and the conducting of musical programs, symposia, and clinics. Some prominent musicians and scholars who have appeared in the past are: Norman Dello Joio, Olly Wilson, Randall Thompson, Guarnieri String Quartet, Virgil Thompson, Beaux Arts Trio, Walter Trampler, Boris Goldovsky, Fred Hemke, Gregg Smith, Lukas Foss, Norman Luboff, Maurice Andre, Phil Woods, Jean Pierre Rampal, David Baker, Adele Adison, John Cage, Byron Janis, Karel Husa, Louis Bellson, Leslie Bassett, David Samuels, Samuel Adler, Julius Baker, Gunther Schuller, Ransom Wilson, Robert Merrill, T. J. Anderson, Doc Severinsen, Hale Smith, Bethany Beardslee, George Russell, Robert Shaw, Art Blakey, Toshiko Akiyoshi, Andre Watts, Christopher Hogwood, Howard Gardner, Edwin Gordon, Peter Webster, Bennett Reimer, David Elliott, and Elliot Eisner, Doreen Rao, Jo-Michael Scheibe, and La Camerata Romeu.

**THEATRE (TAR)**

**The Department Major**

The Department of Theatre is fully accredited by the National Association of Schools of Theatre (NAST). Through its curriculum and production program, the Department of Theatre offers seriously interested students the opportunity to prepare themself, within a liberal arts atmosphere, for a professional career in the theatre; or to continue their studies at the graduate level.

For over 30 years, our exclusively undergraduate program has prepared critically aware and skilled theatre practitioners. The department’s mission is to educate students in the art of theatre, to conduct original research, and to present challenging productions to the university and Tampa Bay communities.

Students may graduate with a broad based theatre arts degree, or they may specialize in performance, design, or theatre education. Computer assisted design (CAD), playwriting, stage combat, circus skills, musical theatre, and puppetry are among the many options available.

**Special Features**

1. The endowed British International Theatre Program (BRIT) brings five or more professional artists from the UK to work with upper level students for 6-8 weeks each spring semester.
2. The John W. Holloway endowed chair in theatre and dance provides funds annually for guest artist residencies.
3. USF’s Theatre Department has a formal student Exchange Program with Middlesex University in London, England.
4. The Department Honors Program allows small select groups of upper division students to work on special projects with faculty and guest artists for up to one year.

Visiting Artists and Artists-in-Residence
TheatreUSF actively promotes guests on campus. A representative list of artists from the last ten years includes: Abel and Gordon, Peter Bartnik, Bill Bryden, Daniel Chumley, Russell Craig, Matthew Francis, George Froshcher, Christopher Fry, John and Lisel Gale, Patrick Garland, Ronald Harwood, Jeff Jones, Rachel Kavanaugh, Sam Mendes, Bob Moody, Eric Overmyer, Louise Page, Estelle Parsons, Olga Petrovna, Roni Pinkovitch, Denis Quilley, L. Kenneth Richardson, Lord Brian Rix, James Roose-Evans, Dorothy Tutin, Robert Wierzel, and Jose Yglesias. These and others have helped the department develop relationships with: UMO Ensemble, London’s West End, The Royal National Theatre, The Royal Shakespeare Company, The Actors’ Studio, Broadway, San Francisco Mime Troupe, Free Theatre of Munich, The Chichester Festival, The Edinburgh Festival, The Spoleto Festival, Yale Repertory Theatre, and Habimah Theatre in Israel.

• Requirements for the B.A. Degree with a major in Theatre
The students may choose one of four areas for the B.A. degree: Performance, Design, Theatre Arts, or Theatre Education. Common to all is the following core:

Core Curriculum (33 hours)
First Year (14 hours)
THE 2020 Introduction to Theatre (3)
TPP 2110 Voice-Body Improvisation (3)
TPA 2200 Intro to Technical Theatre I (3)
TPA 2200L Intro to Technical Theatre Lab I (1)
TPA 2211 Intro to Technical Theatre II (3)
TPA 2211L Intro to Technical Theatre Lab II (1)

Second Year (8 hours)
THE 2305 Script Analysis (3)
Choice of one
THE 3110 Theatre History I -XMW (3)
THE 3120 Theatre History II -XMW (3)
TPA 2292 Production Involvement I (1)
TPP 2190 Studio Theatre Performance I (1)

Third Year (8 hours)
Choice of one literature of the stage (LS):
THE 4330 Shakespeare for the Theatre -6A -XMW -XLW (3)
THE 4360 19th Century Theatre Revolution -6A -XLW (3)
THE 4401 O’Neill and After -6A -XMW (3)
THE 4435 Theatre of Pluralism -6A -XMW (3)
THE 4442 Comedy of Classic & Neoclassic Stage -6A -XLW (3)
THE 4480 Drama Special Topics (3)
AND
Choice of one Theatre Historical Studies (TS):
THE 3110 Theatre History I -XMW (3)
THE 3120 Theatre History II (3)
THE 4320 Theatre of Myth and Ritual -6A -XMW (3)
THE 4180 Theatre Origins -6A -XMW (3)
THE 4905 Directed Studies -Theatre History Studies (3)

Note: By prior agreement between the chair and instructor the Honors sequence in its entirety (THE 4593, 4594, 4595) may substitute for "Literature of the Stage (LS)" or 'Theatre Historical Studies (TS)'

TPP 4293 Production Involvement II (1)
TPP 4193 Studio Theatre Performance II (1)

Fourth Year (3 hours)
Choice of either:
THE 4180 Theatre Origins -6A -XMW (3)
Or
THE 4562 Contemporary Performance Theory -6A -XMW (3)

Audition and Portfolio Review: All students desiring admittance into the upper level acting courses must audition and those entering the upper level design sequence must present a portfolio. This normally occurs after the completion of the sophomore year.

Required Course Areas of Study:

Performance Area (BA Degree)
General Education: 36
Language: 10
Exit Courses: 9
Fine Arts (Non Theatre): 6
Theatre Core: 33
94
TPP 3920 Acting Studio I (8)
TPP 3921 Acting Studio II (8)
Additional TPP Course (9)
Free Elective (1)

Total Hours 120

Design Concentration (BA Degree)
General Education: 36
Language: 10
Exit Courses: 9
Fine Arts (Non Theatre): 6
Theatre Core: 33
94
TPA 3004 Introduction to Design I (3)
TPA 3006 Introduction to Design II (3)
TPA 3208 Drafting and CAD I (3)
Plus TWO of 3231; 3221; 3209
TPA 3231 Costume Construction (3)
TPA 3221 Lighting Theory and Practice (3)
TPA 3209 Drafting and CAD II (3)
AND
THE 4266 Architecture and Decor (3)
THE 4264 Costume History (3)
TPA 4010 Design Studio I (3)
Free Electives (2)

Total Hours 120

• Requirements for B.F.A. Degree with Design Concentration
Note: 1) Language requirement not applicable for BFA degree; 2) With careful selection of General Education and Exit Courses the BFA may be achieved in 120 hours. See Advisor.

General Education: 36
Language: Not Required
Exit Courses: 9
Fine Arts (Non Theatre): 6
Theatre Core: 33
84
TPA 3004 Introduction to Design I (3)
TPA 3006 Introduction to Design II (3)
TPA 3208 Drafting and CAD I (3)
Plus TWO of 3231; 3221; 3209:
TPA 3231 Costume Construction (3)
TPA 3221 Lighting Theory and Practice (3)
TPA 3209 Drafting and CAD II (3)
AND
## Theatre Arts Concentration (BA Degree)

The Theatre Arts is intended for the student who in consultation with the Theatre Advisor wishes to construct his/her own degree program from a broad spectrum of theatre courses. In addition to courses in performance and design, areas of study available are Puppetry, Playwriting, Stage Management, Directing, Literature and Criticism.

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>THE 4266</td>
<td>Architecture and Decor</td>
<td>(3)</td>
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<tr>
<td>THE 4264</td>
<td>Costume History</td>
<td>(3)</td>
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<tr>
<td>TPA 4010</td>
<td>Design Studio I</td>
<td>(3)</td>
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<tr>
<td>TPA 4011</td>
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<td>TPA 4298</td>
<td>Advanced Design Practicum</td>
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<tr>
<td>Advised Other Electives</td>
<td></td>
<td>(8)</td>
</tr>
</tbody>
</table>

Total Hours 45

**Theatre Core:**

- General Education: 36
- Language: 10
- Exit Courses: 9
- Fine Arts (non Theatre): 6
- Theatre Core: 33
- 494 - 15 Hrs = 79

Total Hours 129

## Theatre Education Concentration (BA Degree)

Completion of the Theatre Education concentration certifies students to teach in Florida, grades K-12. In addition to Department of Theatre requirements, students must complete the College of Education’s lower level prerequisite courses and meet the upper level entrance requirements. Course descriptions and requirements can be found in the College of Education portion of this catalogue. Note that General Education courses must include one natural science course with a lab component and 6 hours with international multicultural focus.

**General Education:**

- Language: 10
- Exit Courses: 9
- Fine Arts (non Theatre): 6
- Theatre Core: 33

**TPP Courses:**

- TPP 2110 Voice and Body Improvisation (3)
- TPP 2190 Studio Theatre Performance I (1)
- TPP 2292 Production Involvement I (1)
- TPP 2200 Intro to Technical Theatre I (3)
- TPP 2200L Intro to Technical Theatre Lab I (1)
- TPP 2211 Intro to Technical Theatre II (1)
- TPP 2211L Intro to Technical Theatre Lab II (1)

**Additional Theatre Course:**

- A minimum of 7 credits chosen from THE: TPP; TPA courses with the approval of the advisor. All audition and portfolio requirements apply.

### TOTAL HOURS 129

### Requirement for a Minor in Theatre

THE 2020 Introduction to Theatre (3)
TPP 2110 Voice and Body Improvisation (3)
TPP 2190 Studio Theatre Performance I (1)
TPP 2292 Production Involvement I (1)
TPP 2200 Intro to Technical Theatre I (3)
TPP 2200L Intro to Technical Theatre Lab I (1)
TPP 2211 Intro to Technical Theatre II (1)
TPP 2211L Intro to Technical Theatre Lab II (1)

### HONORS PROGRAM

The Honors Program is available to upper level majors who have a 3.5 GPA in the major and a 3.2 overall GPA and who have achieved a comparably high level of artistic or scholarly achievement. A 6-8 credit one-year sequence of courses is offered to students accepted into the Honors Program. The sequence progresses from a reading seminar to a guest artist practicum to a student thesis or project. With approval of chair and instructor the entire Honors sequence may substitute for one of the ‘Literature of the Stage’ or ‘Theatre Historical Studies’ requirements.

### Prerequisites (State Mandated Common Prerequisites)

Students should complete the A.A. degree at the community college. Some courses required for the major may also meet General Education Requirements thereby transferring maximum hours to the university. If a student wishes to transfer without an A.A. degree and has fewer than 60 semester hours of acceptable credit, the student must meet the university’s entering freshman requirements including ACT or SAT test scores, GPA, and course requirements. Please be aware of the immunization, foreign language, and continuous enrollment policies of the university. This is a non-limited access program with the above courses recommended.

Students need not have completed a concentration of courses in theatre in order to consider a Theatre major at USF. Admission to upper-level Theatre Performance program is by audition. Admission to the upper-level Design sequence is by portfolio review. If the student does not succeed in passing the audition or portfolio review certain Theatre program requirements may have to be repeated until successful completion of the audition or portfolio review can be achieved.

Students should complete the following prerequisite courses listed below at the lower level prior to entering the University. If these courses are not taken at the community college, they...
must be completed before the degree is granted. Unless stated otherwise, a grade of "C" is the minimum acceptable grade. A "C" average in the major is required for graduation. If students are coming to the University from a community college, the following prerequisite courses will be accepted as meeting lower level requirements.

THE 2000 Introduction to the Theatre or any introductory course from 001-035 at the 1 or 2 level
THE 2300 Script Analysis, 3 semester hours or THE 2305
TPA 1290 Production Involvement, 1 semester hour or THE X925, 1 semester hour
TPA 2200 Theatre Crafts: Stagecraft, 3 semester hours or TPA 2210, 3 semester hours
TPP 1190 Studio Theatre-Cast, 1 semester hour or TPP 2190, 1 semester hour
TPP 2100 Voice-Body-Improvisation, 3 semester hours or TPP 2210, 3 semester hours
PLUS nine hours of any combination of THE, TPA, and TPP courses.

British International Theatre Program (BRIT)
The BRIT Program is available each spring semester to 16 advanced theatre students by audition. The program consists of master classes and/or production experience with select guest artists from the U.K. Advanced scene study students are eligible for tuition remission for the three credit BRIT Program course.

FINE ARTS FACULTY

Art

Dance
Chairperson: T. R. Wilson; Professor: G. W. Warren; Associate Professors: S. W. Robinson-Waldrop, T. R. Wilson, L. Wimmer; Assistant Professors: S. A. Birch, J. Salk, J. Travers; Lecturer: J. E. Parks.

Music

Music Education
Director: C. P. Doane; Professor Emerita: V. A. Bridges; Professors: C. P. Doane, J. J. Heller, J. W. Richmond; Associate Professors: J. L. S. Moore; Assistant Professor: D. A. Williams; Associate in Arts Administration: I. G. Wansley

Theatre

FINE ARTS COURSES

Art
ARH 2050 HISTORY OF VISUAL ARTS I -HP-FA (3)
A survey of World Art to AD 1300. Students are introduced to problems of analyzing and interpreting the art of various cultures without making the Western perspective a privileged one. Open to non-majors.
ARH 2051 HISTORY OF VISUAL ARTS II -HP-FA (3)
A survey of World Art since 1300. Students are introduced to problems of analyzing and interpreting the art of various cultures without making the Western perspective a privileged one. Open to non-majors.
ARH 3001 INTRODUCTION TO ART -6A-HP-FA (4)
An expanded introductory treatment of basic concepts. For art majors and non-art majors.
ARH 4170 GREEK AND ROMAN ART (4)
A comprehensive study of Aegean, Mycenaean, Etruscan, Greek and Roman painting, sculpture and architecture.
ARH 4200 MEDIEVAL ART (4)
A comprehensive study of early Christian, Byzantine and Medieval painting, sculpture, architecture and manuscript illumination.
ARH 4301 RENAISSANCE ART (4)
A comprehensive study of Renaissance and Mannerist painting, sculpture and architecture in Italy and Northern Europe.
ARH 4318 VENETIAN ART (4)
PR: CI. Major monuments of Venetian art are examined to elucidate the importance of Venice as the crossroads of cultural exchanges between Islam, Byzantium and West, and the importance of Venetian art for the history of art and art criticism.
ARH 4350 BAROQUE AND ROCOCO ART (4)
A comprehensive study of the painting, sculpture and architecture in France, Italy, Spain and the Netherlands in the seventeenth and early eighteenth centuries.
ARH 4430 NINETEENTH CENTURY ART (4)
A comprehensive study of nineteenth century painting, sculpture and architecture in America and Europe. Gender/multicultural issues and methodologies in 19th century art are emphasized.
ARH 4450 TWENTIETH CENTURY ART (4)
A comprehensive study of painting, sculpture and architecture from Cezanne to the present in Europe and the United States. Required of all art majors.
ARH 4455 MODERN POLITICAL ICONOGRAPHY -XMW (4)
PR: CI. The course explores art in which political themes are considered to be the sources and determinant of aesthetic decisions. The dominant iconographic theme is the iconography of revolution, rebellion, and other forms of political struggle in 20th Century art and film.
ARH 4520 AFRICAN ART (4)
A combination of survey, comparative study and in-depth analysis of African sculpture, mainly from West and Central Africa. Emphasis on diversity of forms and contexts, functions, symbolisms and meanings. Open to non-majors.
ARH 4530 ORIENTAL ART (4)
An introduction to concepts of the arts of China, Japan and other Far Eastern countries.
ARH 4547 BUDDHIST ART (4)
PR: CI. This course examines one important aspect of Asian artistic production. Buddhist art begins in India and travels via the Himalayas and Southeast Asia to East Asia, touching on artistic expression of major principles and practices, changes in art as the religion comes in contact with pre-existing cultures, and modern artistic practice.
ARH 4554 JAPANESE PRINTS (4)
This course examines one important aspect of Asian artistic...
production. "Japanese Prints" concentrates on the period from 1515 to present and distinguishes schools, styles, artists, subjects, patronage patterns, and technical matters. The role of prints within society and on Western art is examined throughout.

ARH 4557 CHINESE ART
PR: CI. Chinese art proceeds chronologically, from the neolithic era up to the contemporary art world. The course considers cultural, linguistic, technical, philosophic, political, and religious influences on the art works produced by this ancient society.

ARH 4710 HISTORY OF PHOTOGRAPHY -6A -XMW
PR: CI. Comprehensive overview of the history of photography from its inception to the present day with an emphasis on the relationship of photography to the visual arts and popular culture.

ARH 4790 SELECTED TOPICS IN THE HISTORY OF FILM
In-depth investigation of a selected period, development, or school in the history of film as art. May be repeated.

ARH 4796 CRITICAL STUDIES IN ART HISTORY - 6A
PR: CI. Specialized intensive studies in art history. Specific subject matter varies. To be announced at each course offering. May be repeated for different topics only.

ARH 4930 ART HISTORY: SELECTED TOPICS
Lecture discussion course designed to offer areas of expertise of visiting scholars or specific interests of resident faculty.

ARH 4937 SEMINAR IN THE HISTORY OF ART HISTORY
PR: Four courses in Art History at the 4000 level, CI. An examination of the origins of Art History as a discipline and changing nature of Art History from Vasari to the present.

ARH 4955 SENIOR PROJECTS
Independent study with professor. Student-designed project to be completed before end of senior year. Art projects may include designs for community and public arts programs, installations, curatorial work, performance, a series of works developed within a particular studio discipline, etc. Restricted to majors.

ARH 5385 CULTURAL AND INTELLECTUAL HISTORY OF RENAISSANCE AND BAROQUE ART
A course in which theories of modern artists, and of critics and historians of Modernism are treated as a part of general cultural and intellectual history.

ARH 5451 CULTURAL AND INTELLECTUAL HISTORY OF MODERN ART
A course in which theories of modern artists, and of critics and historians of Modernism are treated as a part of general Culture and Intellectual History.

ARH 5795 METHODS OF ART HISTORY
This course introduces students to various methods which art historians have used to analyze the form and content of individual works of art, and to various modes of historical explanation. (Must be taken during the student's first two semesters in the program.)

ARH 5797 GALLERY AND MUSEUM INTERNSHIP
(2-6)
By working in Bay Area museums or galleries, students will become familiar with various museological operations. Internships vary owing to the work at hand in particular museums, but possible areas of work include registration, installation, conversation, writing of grants, or museum education. (Students are eligible after completing one semester in the program.) S/U only.

ART 2110C BEGINNING CERAMICS
Intermediate problems in ceramics and emphasis on the exploration of methods and media and the development of individual concepts.

ART 2201C FABRICATIONS -FA
An introduction to basic visual art studio concepts. Topics include the nature of art, the visual language of its form, modes of representation, and visual art theory. Studio problems supplemented by lecture and discussion. Emphasis on images of implied time and space.

ART 2222 BEGINNING ELECTRONIC MEDIA
An introductory exploration of the issues and practices involved in the creation of experimental computer art. The course focuses on an interdisciplinary approach to electronic media. Available to majors and non-majors.

ART 2301C BEGINNING DRAWING
Intermediate projects exploring the methods, media, and concepts of drawing.

ART 2400C BEGINNING PRINTMAKING
This course is designed as an introduction to the medium of printmaking. It concentrates on the technical production of various print media including: intaglio, relief, lithography and serigraphy (screen printing.)

ART 2510C BEGINNING PAINTING
Projects in painting with emphasis on the exploration of methods and media and the development of individual projects.

ART 2701C BEGINNING SCULPTURE
Projects in sculpture with emphasis on contemporary theory and issues, the development of individual concepts and the exploration of materials, tools and processes.

ART 2830 SELECTED TOPICS IN ART
The content of this course will be determined by student demand and instructor interest. May be repeated with different topics. (Open University offerings under this number may not be counted for degree credit for art majors.)

ART 3088 MULTI-MEDIA PRINTMAKING
PR: ARH 3001, ART 2201C, ART 2301C. Investigation of Printmaking Media including: monoprinting, collograph, relief printing and the dimensional print with emphasis on the development of individual concepts.

ART 3469 PHOTO-PRINTMAKING
PR: ARH 3001, ART 2201C, ART 2301C. Investigation of Photo-Printmaking and Darkroom Techniques including: Photo Etching, Photo Screen Printing, Photo Woodcut, and Photogravure with emphasis on development of individual concepts.

ART 3935 STUDIO TECHNIQUES: SELECTED PROJECTS
PR: ARH 3001, ART 2201C, ART 2203C, and CI. Concentration in specialized technical data and process. May be repeated for credit for different topics only.

ART 3939 THE REAL WORLD
For studio students in their Junior year. Offers studio students the opportunity to analyze their experiences as art majors and explore options available to visual artists upon completion of their degree.

ART 4111C ADVANCED CERAMICS
PR: ART 3110C. Continued problems in ceramics. May be repeated.

ART 4223 ADVANCED ELECTRONIC MEDIA
PR: ART 3222 or CI. Advanced exploration of issues and practices involved in the creation of experimental computer art. The course continues as interdisciplinary approach to electronic media with a focus on individual and group projects.

ART 4224 COMPUTER ANIMATION
PR: ART 4223. Exploration of issues and practices involved in the creation of computer animations, focused on individual creative growth.

ART 4320C ADVANCED DRAWING
PR: ART 2301C. Continued projects in drawing. May be repeated.

ART 4420C ADVANCED PRINTMAKING
PR: ART 2400. This course is designed as an advanced level printmaking studio and emphasizes content and meaning in visual imagery. The student is encouraged to work in a specific printmaking medium (intaglio, relief, lithography or screen printing) and develop a cohesive series of images.

ART 4520C ADVANCED PAINTING
PR: ART 2510C. Continued projects in painting. May be repeated.

ART 4702C ADVANCED SCULPTURE
PR: ART 2701C. Continued problems in sculpture. May be repeated.

ART 4703 SCULPTURE III
PR: ART 2702C or ART 2111C. Study of current 3-D issues in art with advanced self directed project to explore the
development of a personal vocabulary in 3-D media. May be repeated.

**ART 4906 THEME STUDIO**

PR: All Art Department Preparation courses plus work in Studio Workshop I. Taught by two or more faculty from different media/disciplines. Topics are variable. Required of all majors with studio concentration. Open to upper level non-majors with CI. May be repeated up to 12 credit hours.

**ART 4900 DIRECTED READING**

(1-4)

PR: CI and CC. A course of reading and study in an area of special concern governed by student demand, instructor interest and/or departmental requirements. Registration by contract only. May be repeated for credit for different study areas only.

**ART 4905 DIRECTED STUDY**

(1-4)

PR: CC. Independent studies in the various areas of Visual Arts. Course of study and credits must be assigned prior to registration. May be repeated.

**ART 4930 SELECTED TOPICS IN ART**

(2-4)

The content of this course will be determined by student demand and instructor interest. May be repeated with different topics. (Open University offerings under this number may not be counted for degree credit for art majors.)

**ART 4955 SENIOR PROJECTS**

(2-4)

Independent study with professor. Student-designed project to be completed before end of senior year. Art projects may include designs for community and public arts programs, installations, curatorial work, performance, a series of works developed within a particular studio discipline, etc. Restricted to majors.

Admission to all 5000-level studio courses by Consent of Instructor.

**ART 5125C CERAMICS**

PR: ART 2111C. Advanced projects in the various ceramic techniques, including throwing and glaze calculation. May be repeated.

**ART 5340C DRAWING**

PR: ART 4320C. Advanced projects in various drawing techniques. Emphasis on individual creative expression. May be repeated.

**ART 5422C LITHOGRAPHY**

PR: ART 4402. Advanced projects in various lithographic techniques. Emphasis on individual creative expression. May be repeated.

**ART 5427C INTAGLIO**

PR: ART 4402. Investigations into more complex intaglio processes including photoengraving and color printing procedures. Emphasis on personal conceptual development in graphic media. May be repeated.

**ART 5536C PAINTING**

PR: ART 2520C. Advanced projects in the various painting techniques. Emphasis on individual creative expression. May be repeated.

**ART 5730C SCULPTURE**

PR: ART 2702C. Advanced problems in the various techniques of sculpture. Emphasis on individual creative expression. May be repeated.

**ART 5910 RESEARCH**

(1-4)

PR: CC. May be repeated.

**ART 5936C STUDIO TECHNIQUES: SELECTED PROJECTS**

(2)

PR: ARH 3001, ART 2201C, ART 2203C, the topic/technique-related 3000-4000 level studio sequence and CI. Concentration in specialized media or processes. May be repeated for credit for different topics only.

**FIL 2001 FILM: THE LANGUAGE OF VISION**

(4)

Open to both majors and non-majors. Exploration of the history of creative filmmaking from its beginnings to the present time. May not be repeated.

**FIL 3510 WORLD CINEMA**

(4)

Offers international perspectives through an examination of films from around the world. Each week narrative films from acclaimed directors will be screened, read about and discussed.

**PGY 2401C BEGINNING PHOTOGRAPHY**

(3)

Introduction to the expressive possibilities of photographic media. Projects and assignments will introduce students to both traditional and experimental ways of working with light-sensitive materials with an emphasis on the interdependence of form, technique, and concept. The course will also provide an overview of significant trends and directions in contemporary art photography.

**PGY 4410C ADVANCED PHOTOGRAPHY**

(3)

May be repeated.

**Art Education**

**ARE 3044 EXPERIENTIAL BASIS OF ARTISTIC MIND**

(3)

PR: Admission to College of Education. Designed to awaken the language of image and metaphor, with emphasis on the internal and expressive aspects of art as well as their application in the schools and the community.

**ARE 3354 ART TEACHING STRATEGIES I**

(3)

PR: Admission to College of Education and ARE 3044. A combination of theory, philosophy and practice in both public and private learning centers to provide the student with a variety of teaching concepts and media exploration in art education and to further enable the student to understand stages of young people, three to eighteen.

**ARE 4112 EDUCATION THROUGH GRAFTS**

(3)

An in-depth study of arts and craft media for children. Emphasis will be placed on innovative use of new materials and curriculum in school restructuring.

**ARE 4440 ART TEACHING STRATEGIES II**

(3)

Media and the learning process will be explored through photographic arts, cinematography and video systems. Teaching strategies and media criticism for application at elementary and secondary levels.

**ARE 4443 CRAFTS WORKSHOP IN ART EDUCATION**

(3)

PR: Admission to College of Education and ARE 3044. The study and practice of processes and media involved with the exploration and expression of cultural traditions and individual ideas through crafts.

**ARE 4642 COMMUNITY ARTS**

(3)

PR: Admission to College of Education and ARE 3044. Explores the arts as infrastructure through identification, exploration and experimentation of with unique community spaces, populations and new environments for and learning in the arts.

**ARE 4909 DIRECTED STUDY: ART EDUCATION**

(1-3)

PR: Senior standing. Designed to extend competency in field of art education.

**ARE 4936 SENIOR SEMINAR IN ART EDUCATION**

(2)


**ARE 4940 INTERNSHIP: ART EDUCATION**

(1-12)

CR: ARE 4936. One full semester of internship in a public or private school. In special programs where the intern experience is distributed over two or more semesters, students will be registered for credit which accumulates from 9 to 12 semester hours. (S/U only.)

**Dance**

**DAF 2100 FUNDAMENTALS OF MODERN DANCE**

(2)

To acquaint beginning modern students with fundamentals of dance vocabulary, movement, rhythm, and alignment. May be repeated.

**DAF 2200 FUNDAMENTALS OF BALLET**

(2)

To acquaint beginning ballet students with fundamentals of vocabulary, movement, rhythm, and alignment. May be repeated.

**DAF 2540 THEATRE DANCE STYLES**

(2)

PR: DAF 2100 or DAF 2200 or CI. Development of technical skills in social and historical dance forms frequently stylized for use by dance choreographers. Forms to be studied may vary. May be repeated up to 4 credit hours.

**DAF 3108 MODERN DANCE II**

(3)

PR: Admission by placement audition. Study of principles of modern dance technique. Practical work in exercises and
DAA 2105 MODERN DANCE I (2)
PR: Admission by Audition. This is a studio class for students with serious interest in Modern Dance. Emphasis is on correct alignment, development of strength, rhythm, and dynamics, activity, as well as spatial and locomotor patterns that underlie work in more advanced contemporary dance.

DAA 2205 BALLET I (2)
PR: Admission by Audition. This is a studio class for students with serious interest in Ballet. Emphasis is on correct alignment and the development of movement patterns and barre exercises as well as the application of combinations in centre work using classical Ballet vocabulary (French terms).

DAA 3686 PERFORMANCE (1)
PR: Admission by audition or CC. Open to all university students proficient in dance techniques and concurrently enrolled in technique. Rehearsal and performance of works presented by the department. May be repeated up to 10 credit hours.

DAA 2500 FUNDAMENTALS OF JAZZ DANCE (2)
A basic movement course in Jazz Dance involving dance vocabulary, alignment, styles and simple rhythmic movement patterns. May be repeated up to 4 credit hours.

DAA 3614 CHOREOGRAPHY I (2)
Study and execution of basic principles of composition. Preparation of studies in theme and variations, breath phrases and metric phrases. May be repeated.

DAA 3208 BALLET II (3)
PR: Admission by placement audition. Positions and barre exercises. Emphasis on correct alignment of the body and the application of simple step combinations in centre work. The use of ballet vocabulary (French terms). Material is covered almost totally as practical work in class with a few outside projects. Concert and performance attendance required. May be repeated.

DAA 3105 MODERN DANCE III (3-4)
PR: Admission by placement audition. Continuation of DAA 3108. Further emphasis on style and phrasing. Work on projecting mood and quality by dancing and rehearsing in more advanced choreography, leading to performance. May by repeated.

DAA 3209 BALLET III (3-4)

DAA 3294 BALLET VARIATIONS (1)
PR: DAA 3209. This course provides instruction in various forms of ballet. Semester courses include: Pointe technique, Men’s Class, Character Dance, Spanish Dance, and Partnering. Ballet majors are required to complete two semester hours. May be repeated.

DAA 3394 WORLD DANCE (2)
Students will experience fundamental knowledge of dance representing various world cultures. In addition to a dance/movement component, a connection will be made to historical, spiritual/religious, ethnological and environmental iden
ginuous aspects of people involved in dance as a cultural experience.

DAA 3684 REPETORY I (1)
P.R. Admission by audition or CC. Open to all University students concurrently enrolled in dance technique classes by audition. The development and performance of solo and/or group dances. May be repeated.

DAA 2504 JAZZ DANCE (2)
PR: Admission by placement audition, DAA 2104 or DAA 2204. A technique class for the intermediate level dancer to become acquainted with the dance styles and forms of musical theatre and concert jazz dance. Emphasis is on highly stylized movement on a strong rhythmic base. May be repeated.

DAA 2570 JAZZ THEATRE DANCE (3)
PR: Admission by placement audition and DAA 2504. Continuation of DAA 2504. Further emphasis on projection, phrasing, rhythmic patterns, and dynamics. Solo and ensemble studies leading to performance. May be repeated.

DAA 3615 CHOREOGRAPHY II (2)
PR: DAA 3614 or CI. Preparation of studies in rhythm, dynamics, form, and motivation. May be repeated.

DAA 3624 DANCE IMPROVISATION (2)
For majors and non-majors. Exploring various methods of spontaneously creating dance movement in individual and group situations. Structured and unstructured approaches will be explored. May be repeated.

DAA 4784 SPECIALIZED STUDY IN MOVEMENT THEORY AND BODY ALIGNMENT (1-3)
Analysis of scientific basis of movement for the dancer through the study of body alignment and movement theories related to dance techniques.

DAA 4111 MODERN DANCE IV (4)
PR: Admission by placement audition or CI. Intensive work on the growth of personal performance styles. Equal emphasis will be given to training the body in the development of technical excellence. May be repeated.

DAA 4211 BALLET IV (4)
PR: Admission by placement audition or CI. Perfecting the execution of barre work. Intensification of centre work. More stress on aesthetic quality of movement and phrasing. Students expected to be proficient in pointe work. Outside projects, concerts, and performances are required. May be repeated.

DAA 4616 CHOREOGRAPHY III (2)
PR: DAA 3615 or CI. Work directed toward duets and group dances. The students will submit choreographic ideas for instructor’s approval, then proceed with rehearsals. Lecture, lab., reading. Rehearsal hours to be arranged. May be repeated.

DAA 4617 CHOREOGRAPHY IV (2)
PR: DAA 4616. The student will prepare studies based on free form, minimal art, and chance methods. Lecture, lab., reading. May be repeated.

DAA 4694 SENIOR CHOREOGRAPHIC PROJECT (1-5)
PR: Senior Dance major, CI, CC. The creation of an original group work and solo within the senior’s major concentration—ballet or modern. To be performed and presented with the concurrence of a faculty advisor.

DAA 4930 SPECIAL TOPICS IN DANCE (1-4)
PR: CI and CC. Dance Major status. Individual study to extended competency in technique and performance of Dance through participation in special workshops. May be repeated up to 4 credit hours.

DAA 3356 ETHNIC FOLK DANCE (2)
An exploration of ethnic and folk dance forms in various cultures of the eastern and western hemispheres. Students will investigate ways of doing, making, and teaching dances through studio work, videos, performances and readings.

DAE 4300 DANCE PEDAGOGY: THEORY AND PRACTICE (3)
PR: CI and CC. For majors and non-majors. Designed to provide prospective dance teachers with opportunities to develop concepts of pedagogy based on principles of teaching - learning in dance techniques and choreography. May be repeated up to 9 credit hours.

DAE 4936 SENIOR SEMINAR IN DANCE EDUCATION (2)
CR: DAE 4940. This course represents a synthesis of the teacher Candidate’s courses and is required concurrently with the internship.

DAE 4940 INTERNSHIP IN DANCE EDUCATION (10)
CR: DAE 4936. One full semester of internship in a public or private school. In special programs where the internship experience is distributed over two or more semesters, students will be registered for credit which accumulates from 9 to 12 semester hours.
DAE 4340 DANCE PEDAGOGY: SECONDARY CURRICULUM AND METHODS (3)
This course is designed to meet the needs of students in dance education to understand the scope and sequence of dance curriculum design and teaching methods appropriate to the secondary student.

DAE 4310 DANCE PEDAGOGY: PRE-SCHOOL AND ELEMENTARY METHODS (3)
This course is designed to meet the needs of students in dance education to understand the scope and sequence of dance curriculum design and teaching methods appropriate for Pre-K and Elementary students.

DAN 2100 INTRODUCTION TO DANCE -6A (3)
For majors and non-dance majors. A study of the art and language of dance through lectures, discussions, concert attendance, and studio practice. Designed to develop awareness and insight of this art form through discussion, observation, writing, and movement experience.

DAN 3614 MUSIC FOR DANCE I (2)
Development of practical music skills in relation to dance. Emphasis on rhythm and the relationship of music forms to dance. May be repeated up to 4 credit hours.

DAN 3615 MUSIC FOR DANCE II (2)
PR: DAN 3614 or CI. Elements within historical context. Continued problems in rhythmic materials.

DAN 2160 ENTRY SEMINAR (2)
This is a study of dance-related career opportunities through lectures, assigned reading and video viewing. This course will aid majors in understanding dance as an aesthetic art form through discussion and critical evaluation.

DAN 4404 INTRODUCTION TO LABAN MOVEMENT ANALYSIS (3)
Designed for majors and non-majors, this course will present a comprehensive view of the evolution of dance as an art form from its origins through the 19th Century. It is designed to develop awareness and insight through lecture, discussion, video, observation and writing.

DAN 3584 PRACTICUM IN DANCE PRODUCTION (1-2)
A practicum in mounting dance concerts with shop work and backstage participation. Intended for students working in costuming, set preparation, light presentation, stage management, and production crew. Dance majors must have at least 2 credits for graduation accumulated in two different semesters. 40 hour lab required.

DAN 3714 DANCE KINESIOLOGY (3)
PR: Sophomore or transfer students. This course will give the student an understanding of basic human anatomy and how it functions in relation to movement, injury prevention, teaching and performance. Individual structural differences and how these affect movement potential will also be studied. There will be an emphasis on the kinesiological analysis of movement with the goal of increased efficiency, enhanced performance and injury prevention.

DAN 4134 DANCE HISTORY THROUGH THE 19TH CENTURY -XWL - 6A (3)
Designed for majors and non-majors, this course will present a comprehensive view of the evolution of dance as an art form from its origins through the 19th Century. It is designed to develop awareness and insight through lecture, discussion, video, observation and writing.

DAN 4135 20TH CENTURY DANCE HISTORY -XMW (3)
Designed for majors and non-majors, this course will trace the development of dance as an art form in the 20th Century. It is designed to develop awareness and insight through lecture, discussion, video, observation and writing. Students will be required to attend at least two dance performances.

DAN 4131 DANCE SENIOR SEMINAR (2)
PR: Senior Dance major status. A study of career opportunities in performance, teaching, research, design, and choreography. To aid majors in self-appraisal as artists and develop methods to further their potential in the professional world. Discussion, critical evaluation, and projects.

DAN 4906 DIRECTED READING (2)
PR: CI and CC. Readings in topic of special interest to the student. Selection of topic and materials must be agreed upon and appropriate credit must be assigned prior to registration. A contract with all necessary signatures is required for registration. May be repeated for credit for different topics only.

DAN 4905 DIRECTED STUDY (1-5)
PR: CI and CC. Independent studies in the various areas of Dance. Course of study may be used to fulfill Junior Project. Must receive approval prior to registration.

DAN 4930 SELECTED TOPICS IN DANCE (1-5)
PR: CI and CC. The content of the course will be governed by student demand and instructor interest. May be repeated for credit for different topics only.

Fine Arts Interdisciplinary

IDS 3362 ARTS CONNECTION - FA (3)
This is an introductory course to the arts disciplines of music, dance, theatre and art. Artists from the four disciplines will provide weekly presentations centered around issues and ideas that have formed the basis of their creative research. Issues involved in diversity, new technologies, and community and public arts will be explored. This course will introduce students to the role the arts play in shaping their perceptions of the world as well as reflecting the underlying values and paradigms that form our culture(s).

IDS 3363 CRITICAL ISSUES AFFECTING THE ARTS (FA) (3)
PR: JR Standing or CI. A discussion based on examination of cultural trends, educational policies, governmental regulations, and financial factors which impact Art, Dance, Music, and Theatre. S/U option.

Music

MUC 2221 COMPOSITION (3)
PR: MUC 1112 and CI. Private instruction in original composition. Required of composition majors. May be repeated for three semesters.

MUC 2301 INTRODUCTION TO ELECTRONIC MUSIC (3)
History and repertory of electronic music; standard sound studio techniques; basic electronics as applied in electronic sound synthesis; mathematics for music, composition and electronic music.

MUC 3231 COMPOSITION (3)
PR: Necessary competency at MUC 2221 level determined by faculty jury. Private instruction in original composition. Required of composition majors. May be repeated for three semesters.

MUC 3401, 3402 ELECTRONIC MUSIC-ANALOG SYNTHESIS (3,3)
PR: MUC 2301 and CI. Composition for tape medium with analog synthesizers; use of sound recording studio; repertory of analog music synthesis; technical basis of analog systems design and construction.

MUC 3441, 3442 ELECTRONIC MUSIC-DIGITAL SYNTHESIS (3,3)
PR: MUC 3401 and 3402 or CI. Computer assisted composition for conventional instruments; composition for tape medium with computer controlled analog synthesizers; direct digital synthesis; digital systems design and construction.

MUC 4241 COMPOSITION (3)

MUC 4403, 4404 ELECTRONIC MUSIC-REAL-TIME PERFORMANCE (3,3)
PR: MUC 3402 and MUC 3442 or equivalent. Composition for analog/digital equipment, performance applications; sound synthesis, interfacing electronics with conventional instruments.

MUC 4501 SEMINAR IN NEW MUSICAL SYSTEMS (3)
PR: CI. Experimental sound sources and ensemble groupings; creation of new instruments; unfamiliar sonic materials and unique social contexts for music. May be repeated for credit.

MUC 4620 JAZZ COMPOSITION (3)
PR: MUC 3354 and/or CI. Private instruction in original jazz
### MUSIC

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perceiving and writing music through the use of aural and visual analysis and examples from all historical periods of music literature.

**MUT 1241, 1242 AURAL THEORY** (1,1)
PR: CI. Course designed to begin training in aural recognition and vocal realization of materials used in music composition. Includes rhythm, melodic and harmonic dictation, and sight singing. To be taken concurrently with **MUT 1111, 1112**.

**MUT 2116, 2117 MUSIC THEORY** (3,3)
PR: MUT 1112. Required of music majors, continuation of MUT 1111 and 1112.

**MUT 2245, 2247 ADVANCED AURAL THEORY** (1,1)
PR: MUT 1242. Course designed to continue training in aural recognition and vocal realization of materials used in music composition. Includes rhythm, melodic and harmonic dictation, and sight singing. To be taken concurrently with **MUT 2116, 2117**.

**MUT 2641 JAZZ THEORY AND IMPROVISATION I** (2)
PR: MUT 1112 and/or CI. A study of jazz improvisational techniques and related jazz theory.

**MUT 2642 JAZZ THEORY AND IMPROVISATION II** (2)
PR: MUT 3641 or CI. A study of jazz improvisational techniques and related jazz theory.

**MUT 3353 JAZZ COMPOSITION AND ARRANGING I** (3)
PR: MUT 1112 and CI. Course designed to develop arranging and/or compositional skills in the jazz idiom through the study of jazz orchestration, harmonic, and melodic practices.

**MUT 3354 JAZZ COMPOSITION AND ARRANGING II** (3)
PR: MUT 1112 and CI. Course designed to develop arranging and/or compositional skills in the jazz idiom through the study of jazz orchestration, harmonic, and melodic practices.

**MUT 3363 ADVANCED JAZZ IMPROVISATION I** (2)
PR: MUT 3642 or CI. A studio course study of the improvisational styles of the major innovators in jazz. Oriented toward the continuing development of students' soloing ability. Students are required to enroll in Jazz Chamber Ensemble as a lab. Open to majors and non-majors.

**MUT 3364 ADVANCED JAZZ IMPROVISATION II** (2)
PR: Jazz Styles and Analysis I or CI. A continuation of Jazz Styles and Analysis I with the emphasis on contemporary jazz artists. Students are required to enroll in Jazz Chamber Ensemble as a lab. Open to majors and non-majors.

**MUT 4311, 4312 ORCHESTRA** (2,2)
PR: CI. Intensive study and practice in scoring music for various combinations of instruments, including symphony orchestra, band, and smaller ensembles of string, woodwind, brass, and percussion instruments.

**MUT 4411 SIXTEENTH CENTURY PRACTICE** (3)
PR: MUT 2117. A study of the music of the 16th century from a theoretical standpoint; development of skills in perceiving and writing music in the style of the period through the use of aural and visual analysis.

**MUT 4421 EIGHTEENTH CENTURY PRACTICE** (3)
PR: MUT 2117. An intensive study of the contrapuntal practice of the 18th century; development of skills in perceiving and writing music in the style of the period through the use of aural and visual analysis.

**MUT 4571 TWENTIETH CENTURY PRACTICE** (3)
PR: MUT 2117. A study of 20th century theoretical concepts; development of skills in perceiving and writing music in contemporary styles through the use of aural and visual analysis.

**MUT 5051 GRADUATE REVIEW OF MUSIC THEORY** (2)
A graduate level review of basic theoretical concepts with emphasis on the common practice period. The course serves to satisfy deficiencies in music theory and does not count toward the graduate degree requirements.

**MVJ 1219 APPLIED JAZZ PERCUSSION** (2)
PR: CI. One half-hour private lesson or one hour class per week for music students wishing to gain proficiency in an area other than their applied performance major and for a limited number of nonmusic majors who have had prior musical training. Course is open by audition only.

**MVJ 1211 APPLIED TRUMPET** (1)

**MVJ 1214 APPLIED EUPHONIUM** (1)
**MVJ 1215 APPLIED Tuba** (1)
**MVJ 1218 APPLIED JAZZ PIANO** (1)
**MVJ 1213 APPLIED JAZZ GUITAR** (1)
**MVJ 1214 APPLIED JAZZ BASS** (1)
**MVJ 1219 JAZZ PERCUSSION** (1)
**MVK 1211 APPLIED PIANO** (1)
**MVP 1211 APPLIED PERCUSSION** (1)
**MVS 1211 APPLIED VIOLIN** (1)
**MVS 1212 APPLIED VIOLA** (1)
**MVS 1213 APPLIED VIOLONCELLO** (1)
**MVS 1214 APPLIED DOUBLE BASS** (1)
**MVS 1215 APPLIED HARP** (1)
**MVS 1216 APPLIED CLASSICAL GUITAR** (1)
**MVS 1211 APPLIED VIOLIN** (1)
**MVS 1211 APPLIED VIOLONCELLO** (1)
**MVS 1212 VIOLA** (1)
**MVS 1215 VIOLIN** (1)
**MVP 1211 APPLIED PERCUSSION** (1)
**MVS 1213 VIOLONCELLO** (1)
**MVS 1214 APPLIED CLARINET** (1)
**MVS 1214 APPLIED BASSOON** (1)
**MVS 1215 APPLIED SAXOPHONE** (1)

**MWB 1212 APPLIED FRENCH HORN** (1)
**MWB 1213 APPLIED TROMBONE** (1)
**MWB 1214 APPLIED EUPHONIUM** (1)
**MWB 1215 APPLIED Tuba** (1)
**MVB 1218 APPLIED JAZZ PIANO** (1)
**MVB 1213 APPLIED JAZZ GUITAR** (1)
**MWB 1214 APPLIED JAZZ BASS** (1)
**MWB 1219 JAZZ PERCUSSION** (1)
**MVS 1211 APPLIED VIOLIN** (1)
**MVS 1212 APPLIED VIOLA** (1)
**MVS 1213 APPLIED VIOLONCELLO** (1)
**MVS 1214 APPLIED DOUBLE BASS** (1)
**MVS 1215 APPLIED HARP** (1)
**MVS 1216 APPLIED CLASSICAL GUITAR** (1)
**MVW 1211 APPLIED VOICE** (1)
**MVW 1211 APPLIED FLUTE** (1)
**MVW 1212 APPLIED OBOE** (1)
**MVW 1213 APPLIED CLARINET** (1)
**MVW 1214 APPLIED BASSOON** (1)
**MVW 1215 APPLIED SAXOPHONE** (1)

**CLASS PIANO COURSES** (below)
PR: CI. Class is elementary piano and music fundamentals designed for students with limited keyboard experience. Personal emphasis is placed on sight-reading, accompanying, transposition, harmonization, basic technique, and appropriate literature.

**MVK 1111 KEYBOARD SKILLS I** (2)
**MVK 1121 KEYBOARD SKILLS II** (2)
**MVK 1122 KEYBOARD SKILLS III** (2)
**MVK 2121 KEYBOARD SKILLS IV** (2)
**MVK 3111 MUSIC MAJORS, LEVEL V** (2)
**MVK 1811 BEGINNING PIANO I** (2)
**MVK 1812 BEGINNING PIANO II** (2)
**MVK 2821 INTERMEDIATE PIANO** (2)

**APPLIED MUSIC COURSES PRINCIPAL** (below)
PR: CI. Required of all music education and composition majors; open to a limited number of non-music majors by audition only. Private and class instruction in string, woodwind, brass, and percussion instruments, voice and piano. May be repeated for credit. Applied music courses are NOT available on S/U basis.

**MVB 1311 TRUMPET PRINCIPAL** (2)
**MVB 1312 FRENCH HORN PRINCIPAL** (2)
**MVB 1313 TROMBONE PRINCIPAL** (2)
**MVB 1314 EUPHONIUM PRINCIPAL** (2)
**MVB 1315 ALTRUDA PRINCIPAL** (2)
**MVS 1316 APPLIED JAZZ PIANO** (2)
**MVS 1313 JAZZ GUITAR PRINCIPAL** (2)
**MVS 1314 JAZZ BASS PRINCIPAL** (2)
**MVS 1213 APPLIED JAZZ PERCUSSION PRINCIPAL** (2)
**MVK 1311 PIANO PRINCIPAL** (2)
**MVK 1313 ORGAN PRINCIPAL** (2)
**MVP 1311 PERCUSSION PRINCIPAL** (2)
**MVS 1311 VIOLIN PRINCIPAL** (2)
**MVS 1312 VIOLA PRINCIPAL** (2)
**MVS 1313 VIOLONCELLO PRINCIPAL** (2)
**MVS 1314 DOUBLE BASS PRINCIPAL** (2)
**MVS 1315 HARP PRINCIPAL** (2)
**MVS 1316 CLASSICAL GUITAR PRINCIPAL** (2)
**MVS 1311 VOICE PRINCIPAL** (2)
**MVW 1311 FLUTE PRINCIPAL** (2)
**MVW 1312 OBOE PRINCIPAL** (2)
**MVW 1313 CLARINET PRINCIPAL** (2)
**MVW 1314 BASSOON PRINCIPAL** (2)
**MVW 1315 SAXOPHONE PRINCIPAL** (2)

**APPLIED MUSIC COURSES PRINCIPAL** (below)
PR: CI. Required of all music education and composition majors; open to a limited number of non-music majors by audition only. Private and class instruction in string, woodwind, brass, and percussion instruments, voice and piano. Applied music courses are NOT available on S/U basis.

**MVB 2321 TRUMPET PRINCIPAL** (2)
**MVB 2322 FRENCH HORN PRINCIPAL** (2)
**MVB 2323 TROMBONE PRINCIPAL** (2)
**MVB 2324 EUPHONIUM PRINCIPAL** (2)
MVW 4342 OBOE PRINCIPAL (2)
MVJ 4341 FLUTE PRINCIPAL (2)
MVV 4341 VOICE PRINCIPAL (2)
MVS 4346 CLASSICAL GUITAR PRINCIPAL (2)
MVS 4344 DOUBLE BASS PRINCIPAL (2)
MVJ 4343 VIOLONCELLO PRINCIPAL (2)
MVS 4341 VIOLIN PRINCIPAL (2)
MVP 4341 PERCUSSION PRINCIPAL (2)
MVK 4343 ORGAN PRINCIPAL (2)
MVK 4341 PIANO PRINCIPAL (2)
MVJ 4349 JAZZ PERCUSSION PRINCIPAL (2)
MVJ 4344 JAZZ BASS PRINCIPAL (2)
MVJ 4343 JAZZ GUITAR PRINCIPAL (2)
MVJ 4340 JAZZ PIANO PRINCIPAL (2)
MVB 4345 TUBA PRINCIPAL (2)
MVB 4344 EUPHONIUM PRINCIPAL (2)
MVB 4343 TROMBONE PRINCIPAL (2)
MVB 4342 FRENCH HORN PRINCIPAL (2)

MVP 4341 PERCUSSION PRINCIPAL (2)
MVS 4341 VIOLA PRINCIPAL (2)
MVS 4336 CLASSICAL GUITAR MAJOR (3)
MVS 4335 HARP MAJOR (3)
MVS 4334 DOUBLE BASS MAJOR (3)
MVS 4333 CELLO MAJOR (3)
MVS 4332 VIOLA MAJOR (3)
MVS 4331 VIOLIN MAJOR (3)
MVP 4331 PERCUSSION MAJOR (3)
MVK 4333 ORGAN MAJOR (3)
MVJ 4334 JAZZ GUITAR MAJOR (3)
MVJ 4333 JAZZ BASS MAJOR (3)
MVJ 4330 APPLIED JAZZ PIANO MAJOR (3)
MVB 4335 TUBA MAJOR (3)
MVB 4334 EUPHONIUM MAJOR (3)
MVB 4333 TROMBONE MAJOR (3)
MVB 4332 FRENCH HORN MAJOR (3)
MVB 4331 TRUMPET MAJOR (3)

MVB 2325 TUBA MAJOR (3)
MVC 2320 APPLIED JAZZ PIANO MAJOR (3)
MVJ 2320 APPLIED JAZZ GUITAR MAJOR (3)
MVJ 2324 JAZZ BASS MAJOR (3)
MVJ 2329 APPLIED JAZZ PERCUSSION MAJOR (3)
MVJ 2324 JAZZ PERCUSSION MAJOR (3)
MVJ 2323 JAZZ GUITAR MAJOR (3)
MVJ 2320 JAZZ PIANO MAJOR (3)
MVB 2325 TUBA MAJOR (3)
MVB 2324 EUPHONIUM MAJOR (3)
MVB 2323 TROMBONE MAJOR (3)
MVB 2322 FRENCH HORN MAJOR (3)
MVB 2321 TRUMPET MAJOR (3)

MVK 3323 ORGAN PRINCIPAL (2)
MVJ 3323 JAZZ GUITAR MAJOR (3)
MVJ 3322 JAZZ BASS MAJOR (3)
MVJ 3320 APPLIED JAZZ PIANO MAJOR (3)
MVB 3325 TUBA MAJOR (3)
MVB 3324 EUPHONIUM MAJOR (3)
MVB 3323 TROMBONE MAJOR (3)
MVB 3322 FRENCH HORN MAJOR (3)
MVB 3321 TRUMPET MAJOR (3)

MVJ 2320 APPLIED JAZZ GUITAR MAJOR (3)
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MVJ 2323 JAZZ BASS MAJOR (3)
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MVB 2324 EUPHONIUM MAJOR (3)
MVB 2323 TROMBONE MAJOR (3)
MVB 2322 FRENCH HORN MAJOR (3)
MVB 2321 TRUMPET MAJOR (3)
### MUSIC STUDIO PEDAGOGY COURSES

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<td>JAZZ PERCUSSION MAJOR</td>
<td>(3)</td>
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<tr>
<td>MVK 4441</td>
<td>PIANO MAJOR</td>
<td>(3)</td>
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<tr>
<td>MVK 4443</td>
<td>ORGAN MAJOR</td>
<td>(3)</td>
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<tr>
<td>MVP 3433</td>
<td>APPLIED ORGAN</td>
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</tr>
<tr>
<td>MVB 4445</td>
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<td>(3)</td>
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<tr>
<td>MVB 4442</td>
<td>FRENCH HORN MAJOR</td>
<td>(3)</td>
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<tr>
<td>MVB 4443</td>
<td>TROMBONE MAJOR</td>
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<tr>
<td>MVB 4444</td>
<td>EUPHONIUM MAJOR</td>
<td>(3)</td>
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<td>MVB 4445</td>
<td>TUBA MAJOR</td>
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<td>MVJ 4440</td>
<td>JAZZ PIANO MAJOR</td>
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<tr>
<td>MVJ 4443</td>
<td>JAZZ GUITAR MAJOR</td>
<td>(3)</td>
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<tr>
<td>MVJ 4444</td>
<td>JAZZ BASS MAJOR</td>
<td>(3)</td>
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</tbody>
</table>

### APPLIED MUSIC COURSES (below)

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>MVW 3435</td>
<td>SAXOPHONE MAJOR</td>
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<tr>
<td>MVW 3434</td>
<td>BASSOON MAJOR</td>
<td>(3)</td>
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<tr>
<td>MVW 3433</td>
<td>CLARINET MAJOR</td>
<td>(3)</td>
</tr>
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<td>MVW 3432</td>
<td>OBOE MAJOR</td>
<td>(3)</td>
</tr>
<tr>
<td>MVW 3431</td>
<td>CLARINET MAJOR</td>
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</tr>
<tr>
<td>MVS 3436</td>
<td>CLASSICAL GUITAR MAJOR</td>
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<td>MVS 3434</td>
<td>DOUBLE BASS MAJOR</td>
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<tr>
<td>MVS 3433</td>
<td>CELLO MAJOR</td>
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</tr>
<tr>
<td>MVS 3432</td>
<td>VIOLA MAJOR</td>
<td>(3)</td>
</tr>
<tr>
<td>MVS 3431</td>
<td>VIOLIN MAJOR</td>
<td>(3)</td>
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<tr>
<td>MVP 3431</td>
<td>PERCUSSION MAJOR</td>
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<td>TUBA MAJOR</td>
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<td>MVB 4444</td>
<td>EUPHONIUM MAJOR</td>
<td>(3)</td>
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<tr>
<td>MVB 4443</td>
<td>Cello MAJOR</td>
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<td>MVW 4444</td>
<td>TRUMPET MAJOR</td>
<td>(3)</td>
</tr>
<tr>
<td>MVW 4443</td>
<td>TROMBONE MAJOR</td>
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<tr>
<td>MVW 4442</td>
<td>FRENCH HORN MAJOR</td>
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<tr>
<td>MVW 4440</td>
<td>VIOLA MAJOR</td>
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</tr>
<tr>
<td>MVW 4439</td>
<td>VIOLIN MAJOR</td>
<td>(3)</td>
</tr>
<tr>
<td>MVK 4444</td>
<td>ORGAN MAJOR</td>
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</tbody>
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### Master Class Courses

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>MVE 5750</td>
<td>STRINGS, MASTER CLASS</td>
<td>(2)</td>
</tr>
<tr>
<td>MVK 4641</td>
<td>PIANO PEDAGOGY I</td>
<td>(4)</td>
</tr>
<tr>
<td>MVK 4641</td>
<td>PIANO PEDAGOGY II</td>
<td>(4)</td>
</tr>
</tbody>
</table>

### Music Education

**MUE 2460 BEGINNING WOODWIND TECHNIQUES**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>MUE 2460</td>
<td>BEGINNING WOODWIND TECHNIQUES</td>
<td>(1)</td>
</tr>
</tbody>
</table>

**MUE 2460 BEGINNING BRASS TECHNIQUES**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>MUE 2460</td>
<td>BEGINNING BRASS TECHNIQUES</td>
<td>(1)</td>
</tr>
</tbody>
</table>

**MUE 3421 CHORAL MATERIALS PRACTICUM**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>MUE 3421</td>
<td>CHORAL MATERIALS PRACTICUM</td>
<td>(1)</td>
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</tbody>
</table>

**MUE 3422 BAND MATERIALS PRACTICUM**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>MUE 3422</td>
<td>BAND MATERIALS PRACTICUM</td>
<td>(1)</td>
</tr>
</tbody>
</table>

**MUE 3423 ORCHESTRA MATERIALS PRACTICUM**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>MUE 3423</td>
<td>ORCHESTRA MATERIALS PRACTICUM</td>
<td>(1)</td>
</tr>
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</table>

**MUE 3451 ADVANCED WOODWIND TECHNIQUES**

<table>
<thead>
<tr>
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<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>MUE 3451</td>
<td>ADVANCED WOODWIND TECHNIQUES</td>
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</tbody>
</table>

**MUE 3460 ADVANCED BRASS TECHNIQUES**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>MUE 3460</td>
<td>ADVANCED BRASS TECHNIQUES</td>
<td>(1)</td>
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</tbody>
</table>

**MUE 3460 MUSIC FOR THE CHILD**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>MUE 3460</td>
<td>MUSIC FOR THE CHILD</td>
<td>(3)</td>
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</tbody>
</table>

**MUE 3481 FOUNDATIONS OF CHORAL MUSIC**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>MUE 3481</td>
<td>FOUNDATIONS OF CHORAL MUSIC</td>
<td>(2)</td>
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</tbody>
</table>

This course deals with the development of knowledge and skills needed to effectively organize and teach a choral performance. It focuses on the techniques of private instruction, the responsibilities of the studio teacher, and the musical responsibilities of the studio teacher.

**MUE 3430 CLASSROOM MUSIC IN THE SECONDARY SCHOOL**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>MUE 3430</td>
<td>CLASSROOM MUSIC IN THE SECONDARY SCHOOL</td>
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</table>

**MUE 3430 MUSIC FOR THE CHILD**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>MUE 3430</td>
<td>MUSIC FOR THE CHILD</td>
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</table>

This course is specifically designed for teachers, vocal music education majors. Course content will change each semester.

**MUE 3430 MUSIC FOR THE CHILD**

<table>
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<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>MUE 3430</td>
<td>MUSIC FOR THE CHILD</td>
<td>(3)</td>
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</table>

This course is designed to investigate music education practices in the schools. The course includes school observation and participation components. Course content will change each semester.

**MUE 3430 MUSIC FOR THE CHILD**

<table>
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<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>MUE 3430</td>
<td>MUSIC FOR THE CHILD</td>
<td>(3)</td>
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</tbody>
</table>
techniques for teaching music to the student not participating in second school music performing groups.

MUE 4331 CHORAL METHODS IN THE SECONDARY SCHOOL (3)

MUE 4332 INSTRUMENTAL MUSIC IN THE SECONDARY SCHOOL (3)

MUE 4352 FOUNDATIONS OF INSTRUMENTAL MUSIC (2)
PR: CI. MUE 3450, MUE 3460. MVP 1211. Junior standing. Introduction to the foundation of instrumental music instruction in the elementary and middle school.

MUE 4480 MARCHING BAND TECHNIQUES (2)
PR: Junior standing. This course is required of instrumental music education majors. It will provide the student with the needed skills in creating for and teaching the public school marching band.

MUE 4909 DIRECTED STUDY: MUSIC EDUCATION (1-3)
PR: Senior standing. To extend competency in teaching field offered only as a scheduled class.

MUE 4936 SENIOR SEMINAR IN MUSIC EDUCATION (3)

MUE 4940 INTERNSHIP: MUSIC EDUCATION (1-12)
CR: MUE 4936. One full semester of internship in a public or private school. In special programs where the internship experience is distributed over two or more semesters, students will be registered for credit which accumulates from 9-12 semester hours. (S/U only.)

Theatre

THE 2020 INTRODUCTION TO THEATRE (3)
An introduction to the art of theatre as part of the larger context of the nature of art itself. The approach will be both chronological and multi-cultural. This course is open to non-majors. Theatre majors should take this course concurrently with their first registration. Required of all Theatre majors.

THE 2305 SCRIPT ANALYSIS (3)
PR: THE 2020. The course teaches the techniques of close reading of dramatic texts for the purpose of acting, directing, and designing for the stage.

THE 3090C MODERN THEATRE PRACTICE -6A (3)
Initial readings and exercises in theatre; play analysis, performance, and technical theatre for non-theatre majors.

THE 3110 THEATRE HISTORY I -XMW (3)
PR: THE 2020. The study of theatrical production in its cultural context, including theatre architecture, scenography, acting and directing. Normally fifteen plays will be read. Required of all theatre majors. Open to non-majors.

THE 3120 THEATRE HISTORY II -XMW (3)
PR: THE 2020. The study of theatrical production from the Jacobean Era to the Contemporary Stage in its cultural context including theatre architecture, critcography, acting and directing. Normally fifteen plays will be read. Required of all theatre majors. Open to non-majors.

THE 4180 THEATRE ORIGINS -6A -XMW (3)
PR: THE 3110 or THE 3120, and one of the following: THE 4320, THE 4330, THE 4350, THE 4401, THE 4435, THE 4442, THE 4480. An analysis of the development of the development of theatre out of myth, ritual, and liturgy. Emphasis placed on what attempts to understand the resulting phenomena (e.g. Aristotles Poetics) can teach us about the nature of our art. Either THE 4180 or THE 4562 is required of all theatre majors. Open to senior non-majors with CI.

THE 4264 HISTORY OF COSTUME (3)
A survey of clothing and dress from Ancient Egypt to the 20th Century with an emphasis on cultural and social influences. Open to upper level non-majors with CI.

THE 4266 ARCHITECTURE AND DECOR -6A -XMW (3)
A survey of architecture and furniture from ancient Egypt to the 20th Century with an emphasis on cultural and social influences. Open to upper level non-majors with CI.

THE 4320 THE THEATRE OF MYTH AND RITUAL/NORTHERN EUROPEAN (950-1600) AND ORIENTAL (400-1200) -6A -XMW (3)
PR: THE 3110 or THE 3120. An investigation into the interrelationship of myth, ritual, and theatre. Considers northern European liturgical and secular theatre as compared with Hindu, Chinese, and Japanese Theatre. Open to upper level non-majors with CI.

THE 4330 SHAKESPEARE FOR THE THEATRE -6A -XMW -XLW (3)
A close study of selected plays with special emphasis on their performance values. Open to upper level non-majors with CI.

THE 4335 THEATRE OF PLURALISM -6A -XMW (3)
PR: THE 3110 or THE 3120. The practice of theatre as it reflects cultural heritage, gender, race and sexual orientation. Study of contemporary scripts, critical and artistic statements. Open to upper level non-majors with CI.

THE 4442 THE COMEDY OF THE CLASSIC AND NEO-CLASSIC STAGE -6A -XMW (3)
PR: THE 3110 or THE 3120. A study of comedic function in scripts from Greek and Roman, Restoration and French Neoclassic of the late 17th century and other plays from the late 18th and late 19th centuries which reflect similar characteristics. Open to upper level non-majors with CI.

THE 4480 DRAMA SPECIAL TOPICS (3)
PR: THE 3110 or THE 3120. A study of a significant playwright or grouping of playwrights, e.g. Moliere, Brecht, recent American dramatists. Open to upper level non-majors with CI.

THE 4562 CONTEMPORARY PERFORMANCE THEORY -6A -XMW (3)

THE 4593 HONORS SEMINAR (2)
PR: THE 3110 or THE 3120. Readings in the literature, history and theory of the stage in preparation for Theatre Honors Practicum. Past topics have included New German Theatre, Popular Theatre, New American Theatre, Jacoben Theatre. Enrollment limited to upper level majors who have been formally admitted to the department honors program. Not available S/U. May not be repeated except under special and unusual circumstances.

THE 4594 HONORS PRACTICUM (3)
PR: THE 4593. Honors Practicum grows out of the Honors Seminar and engages students in workshops or production with guest artists. Past artists have included the Free Theatre of Munich, the San Francisco Mime Troupe, playwrights Eric Overmeyer, Jeff Jones and Gary Hill. May not be repeated except under special and unusual circumstances.

THE 4594 HONORS PRAXICUM (3)
PR: THE 4594. A practical or written thesis related to the seminar and practicum and approved by the departmental honors committee.

THE 4905 DIRECTED STUDIES (1-4)
Independent study in the various areas of Theatre. Course of study and credits must be assigned prior to registration.
THE 4930 SELECTED TOPICS IN THEATRE (1-8)  
PR: CI. The content of the course will be governed by student demand and instructor interest. May be lecture or class discussion or studio format. May be repeated for credit for different topics only.

THE 5909 DIRECTED STUDIES (1-8)  
PR: CI and CC. Independent studies in the various areas of the College. Course of study and credits must be assigned prior to registration.

THE 5931 SELECTED TOPICS IN THEATRE (1-8)  
PR: CI. The content of the course will be governed by the student demand and instructor interest. May be lecture or class discussion or studio format. May be repeated for credit for different topics only.

TPA 2200 INTRODUCTION TO TECHNICAL THEATRE I (3)  
PR: Requires concurrent enrollment in TPA 2200-L or CI. An introductory course in technical production including scenic construction, stage lighting, costume construction, and theatre organization. Required of Theatre majors. Requires sequential semester enrollment with TPA 2211 and TPA 2211-L. Open to Non-majors.

TPA 2200-L TECHNICAL THEATRE LAB I (3)  
PR: Requires concurrent enrollment in TPA 2200, or CI. A practical laboratory involving the pre-performance production preparation of all technical aspects of a major production such as: construction, painting, sewing, lighting, and sound. Students are assigned two areas of study per semester. Required of all theatre majors. Open to Non-majors.

TPA 2211 INTRODUCTION TO TECHNICAL THEATRE II (3)  
PR: Requires concurrent enrollment in TPA 2211-L or CI. An introductory course in technical production including scenic construction, stage lighting, costume construction, sound, and theatre organization. Required of Theatre majors. Requires sequential semester enrollment with TPA 2211 and TPA 2211-L. Open to Non-majors.

TPA 2200-L TECHNICAL THEATRE LAB II (3)  
PR: Requires concurrent enrollment in TPA 2211, or CI. A practical laboratory involving the pre-performance production preparation of all technical aspects of a major production such as: construction, painting, sewing, lighting, and sound. Students are assigned two areas of study per semester. Required of all theatre majors. Open to Non-majors.

TPA 2248 WORKSHOP IN STAGE MAKEUP (1)  
Beginning theory and practice in make-up for the stage. Open to non-majors. Theatre majors given preference. A studio course.

TPA 2292 PRODUCTION INVOLVEMENT I (1)  
PR: TPA 2200-L, TPA 2211-L. A practical laboratory involving the pre-performance of all technical aspects of a major production such as: Construction, painting, sewing, lighting, and sound. Activities are generally concentrated in a 6 to 8 week time frame with arranged hours depending on assignment. Assigned to approved production by application/interview. Required of majors. May be repeated. Open to non-majors with CI.

TPA 3004 INTRODUCTION TO DESIGN I (3)  
PR: TPA 2200, 2200-L, 2211, 2211-L. A required design track course which includes lectures, demonstrations, individual student presentations, and studio activities. The course work will provide an introduction to the various aspects of design including: two and three dimensional design, basic presentation and visual communication skills, research, and project analysis/organization. Open to non-majors.

TPA 3004 INTRODUCTION TO DESIGN II (3)  
PR: TPA 3004. A required design track course which includes lectures, demonstrations, individual student presentations, and studio activities. The course work will provide an intermediate study in the various aspects of design including: two and three dimensional design, basic presentation and visual communication skills, research, and project analysis/organization. Open to non-majors.

TPA 3208 DRAFTING AND CAD I (3)  
PR: TPA 2200, 2200-L, 2211 and 2211-L. A required course including lectures, demonstrations, individual student presentations, and studio activities. The course work will provide an opportunity to develop skills and techniques in the visual presentation of various designs and technical drafting. Open to non-majors.

TPA 3209 DRAFTING AND CAD II (3)  
PR: TPA 3208. The continuation of TPA 3208 – Drafting and CAD/l. Lectures, demonstrations, individual student presentations, and studio activities. The course work will provide an opportunity to develop skills and techniques in the visual presentation of various designs and technical drafting. A requirement in the design track/scenic. Open to non-majors.

TPA 3221 LIGHTING: THEORY AND PRACTICE (3)  
PR: TPA 2223 and TPA 3004. Intermediate lighting design course concerned with graphic presentations, color theory, design concepts, and practical experience with computer lighting systems. A requirement in the design track/lighting. Open to upper level non-majors with TPA 2223 and CI.

TPA 3231 COSTUME CONSTRUCTION (3)  
PR: TPA 2200-L. A practical course in the drafting of patterns for costuming the actor. Materials, skills, and techniques for construction of costumes and costume accessories will be treated. Included topics are millinery, footwear, jewelry, masks, armor, corsetry; both period and modern. Open to upper level non-majors with CI.

TPA 3260 SOUND FOR THE STAGE (3)  
PR: TPA 2211, TPA 2211-L. Basic study of audio components, fundamental properties of sound, multiple channel recording, editing, reproduction and reinforcement. Methods and techniques used in theatre to create sound effects. Open to non-majors with CI.

TPA 3296 DESIGN PRACTICUM (3)  
PR: TPA 3006. Design Practicum is a studio/laboratory course required in the BFA design track. The course is a study in the practical aspects of production. The course is intended to provide realized production experience to the advanced theatre design student in such areas as costume, lighting, and scenic design; stage properties design; technical direction; and theatrical production craft/skill areas. The student will be individually mentored by a faculty member(s) through the process of developing and realizing a production/design/craft/skill.

TPA 3301 STAGE MANAGEMENT (2)  
PR: TPA 2200, TPA 2200-L. A practical course in the working organizational function of the stage manager in theatre, dance, opera, and other live performance situations. Open to non-majors with CI.

TPA 3310 INTRODUCTION TO PUPPETRY (3)  
PR: TPA 2200, TPA 2200-L. Principles and methods of puppetry with a historical survey of major forms and practical problems with laboratory production. Open to nonmajors with CI.

TPA 3340 PUPPETRY PERFORMANCE AND PRODUCTION (4)  
The creation, building, rehearsal, and performance of plays for puppet theatre. May be repeated one time for additional elective credit, with CI, to total of 8 hours. Open to non-majors with CI.

TPA 4010 DESIGN STUDIO I (3)  
PR: TPA 3208, TPA 3006, plus two of TPA 3231, TPA 3209. A required design track course which includes studio design project activities in the areas of costume, lighting, and scenic design. The course work will stress the nature of collaborative work and the various stages and processes involved with the development of a design from the first meeting to the final paper/model design. Evaluation of the project will emphasize the creative process followed in the development of the design including thumbnail/idea sketching, research, and production concept. The course will include seminar (production) discussions, lectures, demonstrations, individual and group work, and individual student presentations.

TPA 4011 DESIGN STUDIO II (3)  
PR: 4010. Open to B.A. design track majors with CI. A required BFA design track course which includes studio
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
<th>Description</th>
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<tbody>
<tr>
<td>TPP 2020</td>
<td>THE 2020. A Practical Laboratory associated with the rehearsal and performance of a major production. Activities such as acting, directing, stage management, publicity, performance production crews may be considered. Placement by audition/application/interview. If cast, student must accept role. Required of all theatre majors. May be repeated. Open to non-majors with CI.</td>
<td>(3)</td>
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</tr>
<tr>
<td>TPP 2210</td>
<td>THE 2020. A Practical Laboratory associated with the rehearsal and performance of a major production. Activities such as acting, directing, stage management, publicity, performance production crews may be considered. Placement by audition/application/interview. If cast, student must accept role. Required of all theatre majors. May be repeated. Open to non-majors with CI.</td>
<td>(3)</td>
<td>Exploring the elements basic to acting skills, a participation course. Required of all theatre majors. Open to non-majors.</td>
</tr>
<tr>
<td>TPP 2500</td>
<td>BODY DISCIPLINES</td>
<td>(2)</td>
<td>PR: TPP 2110. A Laboratory course in various disciplines or systems in controlling and understanding the body’s motive powers with focus on their use for the stage performer. May be repeated for credit. Open to upper level non-majors with CI.</td>
</tr>
<tr>
<td>TPP 3121</td>
<td>IMPROVISATION I</td>
<td>(3)</td>
<td>PR: TPP 2110. An intensive study in improvisation as an enhancement of the actor’s skill. Exercises and theatre games as flexible forms which accommodate improvisation and physical invention as re-examined and used to develop group creativity. Open to upper level non-majors with CI.</td>
</tr>
<tr>
<td>TPP 3155</td>
<td>SCENE STUDY I</td>
<td>(3)</td>
<td>PR: All core 2000 level theatre courses and audition. Identification and investigation of the fundamental elements of acting as applied to scene exploration, rehearsal and presentation.</td>
</tr>
<tr>
<td>TPP 3230</td>
<td>LABORATORY WORKSHOP IN PERFORMANCE</td>
<td>(3)</td>
<td>PR: TPP 2210 and audition. The content of the acting course will be governed by student demand and instructor interest. May be repeated twice. Open to upper level non-majors by audition.</td>
</tr>
<tr>
<td>TPP 3580</td>
<td>SPECIAL SKILLS IN MOVEMENT</td>
<td>(3)</td>
<td>PR: TPP 2210. Stage combat, circus and acrobatic techniques, and other special techniques of movement. May be repeated for credit. Open to upper level non-majors with CI.</td>
</tr>
<tr>
<td>TPP 3790</td>
<td>VOICE PREPARATION FOR THE ACTOR</td>
<td>(3)</td>
<td>PR: TPP 2210. A laboratory in voice production and corrective speech for the actor. Required of all theatre majors with a performance concentration. May be repeated for credit. Open to upper level non-majors with CI.</td>
</tr>
<tr>
<td>TPP 3920</td>
<td>ACTING STUDIO II</td>
<td>(8)</td>
<td>PR: Audition, all lower level theatre courses, junior standing. An intensive and comprehensive ensemble workshop that explores the basic principles of acting and the skills necessary for play, scene and character analysis. Emphasis placed on the integration of body, voice, mind and emotions. Team taught by performance faculty.</td>
</tr>
<tr>
<td>TPP 4180</td>
<td>ADVANCED SCENE STUDY</td>
<td>(3)</td>
<td>PR: TPP 3921 and audition. An acting workshop focusing on application of character development and rehearsal techniques over a sustained period leading toward a project showing at semester’s end.</td>
</tr>
<tr>
<td>TPP 4193</td>
<td>STUDIO THEATRE PERFORMANCE II</td>
<td>(1)</td>
<td>PR: TPP 2110. Exploration of musical theatre materials and performance techniques. Individual and ensemble work. May be repeated twice. Open to non-majors by audition.</td>
</tr>
<tr>
<td>TPP 4221</td>
<td>AUDITION WORKSHOP FOR THE ACTOR</td>
<td>(2)</td>
<td>PR: TPP 3150 or TPP 3921 and audition. Examination of the actor’s craft and skills needed to fulfill the demands of classical theatre forms.</td>
</tr>
<tr>
<td>TPP 4293</td>
<td>PRODUCTION INVOLVEMENT II</td>
<td>(3)</td>
<td>PR: TPP 2292. A practical laboratory involving the pre-performance of all technical aspects of a major production such as: Construction, painting, sewing, lighting, and sound. Activities are generally concentrated in a 6 to 8 week time frame with arranged hours depending on assignment. Assigned to approved production by application/interview. Required of majors. May be repeated. Open to non-majors with CI.</td>
</tr>
<tr>
<td>TPP 4311</td>
<td>DIRECTING II</td>
<td>(3)</td>
<td>PR: TPP 3921. An advanced workshop course which extends the study of directing in TPP 4310 into more complex territory.</td>
</tr>
<tr>
<td>TPP 4310</td>
<td>DIRECTING I</td>
<td>(3)</td>
<td>PR: TPP 3150 or TPP 3230. An elective sequence in directing. A workshop course in which the student first encounters the basic tasks of the director by preparing and directing one or two scenes and then progresses to more complex scene work in a variety of styles and finally proceeds to the short play or theatre pieces. Open to non-majors with CI.</td>
</tr>
<tr>
<td>TPP 4600</td>
<td>WRITING FOR THE THEATRE I</td>
<td>(3)</td>
<td>PR: TPP 2110. THE 2305. An elective sequence in writing, in which the student first encounters the problems unique to dramatic language and situation, then progresses to complexities of character, plot, and stage dynamics. Normally the aim would be to complete several performance-worthy self-contained scenes. May be repeated for credit. Open to upper level non-majors with CI.</td>
</tr>
</tbody>
</table>
TPP 4920 SENIOR WORKSHOP FOR ACTORS (3)
PR: TPP 2500, TPP 3790 and TPP 3150 or TPP 3921
A workshop in advanced vocal and movement techniques. May be repeated once.

Theatre Education
EDG 4320 INTRODUCTION TO CREATIVE DRAMA (3)
This course for classroom teachers introduces the theory and practice of creative drama as it applies to use by elementary, middle school and secondary school teachers. Beginning with a study of dramatic play as it relates to human development, the course includes basic strategies when using pantomime, voice improvisation, theatre games, and role playing and story dramatization.

THE 4722 THEATRE FOR PRE-SECONDARY SCHOOLS: THE PRODUCTION PROCESS (3)
The play production process as it applies to theatre artist-in-schools programs, including development of related classroom workshops and preparation of study guides, and educational program materials as well as design, direction and rehearsal of play and touring methods. May be repeated for elective credit two times; once for major credit.

THE 4723 THEATRE FOR PRE-SECONDARY SCHOOLS: THE PERFORMANCE PROCESS (3)
The artistic process of performing for various school audiences and practice conducting classroom workshops following each performance. May be repeated for elective credit two times; once for major credit.

THE 4761 METHODS OF TEACHING THEATRE FOR ADOLESCENTS (3)
Methods of effective drama and theatre instruction in middle school, junior and senior high schools, recreation centers, community and professional theatres.

THE 4940 INTERNSHIP (3)
One full semester of internship in a public or private school. In special programs where the intern experience is distributed over two or more semester, students will be registered for credit which accumulates from 9 to 12 semester hours. (S/U Only)
New College of the University of South Florida, located on USF’s Sarasota-Manatee campus, is a distinguished residential college that serves as the honors college of the State University System. It offers a nationally recognized liberal arts education at regular state tuition rates.

The New College student/faculty ratio is approximately 11:1; ninety-four percent of the faculty hold earned doctorates. Students work closely with faculty members in small classes, tutorials, and on individual projects.

Admission is highly selective. New College looks for students who have demonstrated above average ability, academic motivation and self-discipline. Over half the students are from Florida.

New College offers to students a level of faculty support and facilities for study generally found only at very expensive private colleges. This is possible because the gap between public funding and the actual cost of a New College education is closed by annual grants to the University from the New College Foundation. The Foundation also raises substantial scholarship funds for meritorious students.

Educational Program

The New College degree is awarded for intensive, individualized study in the liberal arts and sciences. Classes, tutorials and independent study projects are tools the student, with faculty guidance, uses to discover and pursue intellectual and career interests. Study at New College culminates in a senior thesis and baccalaureate examination in the student’s chosen area of concentration.

New College offers excellent academic facilities. A $6.1 million library opened on the campus in 1988, housing a collection presently numbered at over 250,000 volumes. The library is linked through inter-library loan to the USF system of over 1.5 million volumes, and to a network of thousands of other libraries. It also subscribes to computerized data bases that extend its reach beyond the region. The New College Natural Sciences laboratories, open to students around the clock, feature many research-grade instruments, including a scanning electron microscope. In 1999, a $7.5 million science complex will open, replacing the present laboratories. About a year later, an annex dedicated to marine biology will open.

Campus-based studies can be supplemented by off-campus field research and internships, and by study abroad. New College participates in the Florida State University Study Centers in London and Florence, as well as in other programs, including USF’s International Student Exchange.

Areas of Study

All studies at New College lead to the Bachelor of Arts. Students may concentrate in a specific discipline or they may design, with faculty approval, an interdisciplinary concentration. The faculty offers the following areas of study: Anthropology, Art History, Biology, Chemistry, Classics, Economics, Environmental Studies, Fine Arts, History, International and Area Studies, Languages, Literature, Mathematics, Medieval & Renaissance Studies, Music, Philosophy, Physics, Political Science, Psychology, Public Policy, Religion, Sociology, Urban Studies.

Elementary through advanced studies in French, German, Russian, Spanish, Latin and Greek language and literature are available.

Study at New College leads to a wide range of careers. Graduates from New College go to medical, dental and law school. A large number do graduate work in the arts and sciences, leading to teaching, research and careers in government and industry. Others obtain advanced degrees in business, education, religion and architecture. Those not going on for advanced degrees have launched successful careers in journalism, fine arts, retailing, management, finance, environmental planning and a host of other fields. Quite a few have become entrepreneurs, founding businesses of their own based on skills acquired while students.

Academic Calendar and Residence Requirements

The New College calendar consists of two 15-week semesters and a four-week independent study period in January. Fall semester begins in late August and ends just before Christmas. Spring semester begins the first week in February and ends in late May. Enrollment at New College is full-time.

Students may complete the degree in seven semesters (three and one-half years) as a result of New College’s longer academic year and the advanced nature of the program. Three Independent Study Projects are carried out during January and/or the summer recess. Students may register for up to two additional semesters if their academic programs require it; they may also take up to two semesters of academic leave during their tenure at New College without loss of scholarship support. All students must complete a senior thesis and pass a baccalaureate examination based primarily upon the senior thesis.

Transfer students may have the number of semesters required for graduation reduced through the awarding of transfer credit for college-level work done elsewhere. The maximum allowable transfer credit is equivalent to three semesters and one independent study project.

Admissions Requirements

New College actively seeks those students who will benefit most from the demanding academic program and flexible curriculum. The college looks for evidence of intellectual potential, strong academic preparation, self-motivation and initiative, tenacity, curiosity, and concern for others.

Applicants must submit a State University System application. New College supplementary application, official high school transcript, SAT or ACT scores, a graded research paper from an English or history class, teacher’s recommendation, and counselor recommendation. Transfer applicants must also submit transcripts from all colleges or universities they have attended. New College welcomes transfer applicants. A growing number of students come to New College from Florida’s two-year community colleges.

New College is a residential college, with the majority of its students living on campus. There are 120 apartments for upper-class students, and 15 small houses for the first-year students and graduating seniors. All first-year students live on campus and participate in the community dining plan. Upper-class students may choose college or non-college housing. A medical plan gives students access to a physician.
The College of Nursing is committed to the advancement of nursing and the promotion of health care through its education, research and service endeavors. To fulfill its commitment to nursing education, the college offers an upper division program that leads to a Bachelor of Science degree with a major in nursing.

There are two sequences in the undergraduate program, one for qualified students with no previous preparation in nursing (basic students), and one for registered nurses, who are graduates of diploma or associate degree nursing programs. The basic sequence is designed so that students who have completed the prerequisite/support courses can enroll in the nursing major and complete requirements for the degree in four semesters and a summer session of full-time study on the Tampa campus. The registered nurse sequence is designed so that registered nurses can enroll in the nursing major on a full-time or on a part-time basis at Tampa and on specific university campuses. Registered nurses who enroll as full-time students may complete requirements for the bachelor's degree in three semesters. If they enroll as part-time students, the degree requirements can be completed in six semesters.

The program is accredited by the National League for Nursing Accrediting Commission, 61 Broadway, New York, NY 10006, (212) 363-5565 ext. 153, and approved by the Florida State Board of Nursing. Graduates of the basic sequence are eligible to write the qualifying examination for licensure as a registered nurse. Graduates may apply for licensure in Florida or other states. Graduates of the undergraduate program have the educational background necessary for graduate study in nursing.

The College of Nursing encourages applications from qualified applicants of both sexes and from all cultural, racial, religious, ethnic, and age groups. The College of Nursing uses selective criteria for the admission of students. Limitations on enrollments are determined on the basis of availability of sufficient qualified faculty, laboratory and classroom facilities, and clinical teaching resources.

Mission

The mission of the College of Nursing is congruent with the mission of the University of South Florida. The College is dedicated to being the premier institution for those striving to achieve leadership in nursing. The mission is: (1) to provide excellent nursing education; (2) to advance the profession through research; and (3) to contribute to society through practice and service.

Philosophy

The College of Nursing is committed to improving the health and wellbeing of all people by anticipating and responding to changing professional, social, technical and economic demands. Nurses address professional and community needs by assuming multiple collaborative and cooperative relationships and roles.

Nursing is a humanistic profession that enhances the quality of life by promoting health, preventing illness, supporting rehabilitation following illness, and providing for persons at the end of life. All individuals are entitled to health care and the right to participate in making health care decisions.

Intelectual growth and professional autonomy are fostered through the continuum of educational programs in nursing. The Baccalaureate Program prepares students to enter professional practice and provides a foundation for graduate education. The Master's Program prepares students for advanced specialty practice. The Doctoral Program prepares nurse scientists to advance the discipline of nursing through the development and dissemination of knowledge.

The College strives to provide opportunities for students and faculty to engage in community service and other activities within the scope of the college's mission. The College also provides opportunities for students to gain experience in community service and other activities within the scope of the college's mission.

The College of Nursing is a member of the University of South Florida, a public land-grant institution located in Tampa, Florida. The University offers a wide range of undergraduate and graduate programs in the arts, sciences, education, business, law, health professions, and social sciences.

Undergraduate Program Objectives UPON GRADUATION, GRADUATES WILL:

1. Use concepts, principles, theories, and models from the natural and social sciences; the arts and humanities; and the history and science of nursing to guide clinical practice.
2. Use critical thinking and clinical judgment as the basis for nursing practice in providing and coordinating care for individuals, families, and communities across the lifespan in health promotion, disease prevention, health restoration and rehabilitation.
3. Demonstrate understanding of the research process by integrating clinical data and research findings into nursing practice.
4. Interact with other health care professionals, clients and consumers as advocate, teacher, collaborator, communicator, manager, and professional leader to plan, provide, and evaluate essential health services for culturally diverse and vulnerable populations.
5. Examine the impact of health care policy on the health care delivery system within a variety of settings.
6. Practice within the ethical/legal parameters of professional nursing.
7. Demonstrate the potential for leadership within the profession and health care delivery system.
8. Demonstrate accountable behavior in the professional nursing role.

Undergraduate Education In Nursing

The undergraduate program in nursing is a limited access upper division major at the University of South Florida. The program has 2 sequences: one for qualified basic students who have no previous preparation in nursing and one for qualified registered nurse students who are graduates of an associate degree or diploma program in nursing. Applicants for either sequence must submit applications to both the University and the College of Nursing by the appropriate deadlines.

Applications for admission to the University may be obtained by contacting the Office of Admissions, University of South Florida, Tampa, Florida 33620. Applications for the College of Nursing are available from USF College of Nursing, Office of Student Affairs, MDC Box 22, 12901 Bruce B. Downs Blvd., Tampa, Florida 33612.

Applicants must complete the University’s Liberal Arts requirements and College of Nursing prerequisites/support courses. These can be completed on the Tampa campus by enrolling in the lower division, or at any community college, university, or college that offers equivalent courses prior to transfer to USF.

Students who enroll at USF in the lower division must meet the requirements for admission to the University and be advised by Academic Support and Achievement. These students must also submit an application for admission to the College of Nursing for the upper division major.

Basic students are admitted once a year in the Fall semester. The deadline for application to the College is January 5 of the year in which the student plans to enroll. Priority will be given
3. Students with a Florida community college A.A. degree
2. Completion of the University of South Florida Liberal Arts
1. Completion of 60 semester hours of college-level work with

ing, Office of Student Affairs for overall requirements (974-

applicants must meet University eligibility requirements.

For more specific information contact the College of Nurs-

ing, Office of Student Affairs for overall requirements (974-

Overall Requirements
1. Completion of 60 semester hours of college-level work with a cumulative grade-point average of 2.5. Credit received on the basis of CLEP or Advanced Placement examinations or other appropriate procedures may be included to meet some of these requirements.

2. Completion of the University of South Florida Liberal Arts requirements as part of the above for all students. These requirements may be satisfied by the completion of the following courses with the corresponding credit:

- English
- Math
- Algebra or Finite Math (3)
- Statistics (3)
- Fine Arts
- Natural Science
- Chemistry (4)
- Nutrition (3)
- Microbiology (4)
- Anatomy/Physiology (6-8)
- Social Sciences
- Life Cycle (3)
- Psychology (3)
- Sociology (3)
- Historical Perspectives
- African, Latin American, Middle Eastern, Asian Perspectives

3. Students with a Florida community college A.A. degree (other than in nursing) will be considered to have met all of the USF Liberal Arts requirements but also must meet specific college requirements.

4. Students are required to meet the University requirement for foreign language.

Admission Requirements
In order to be considered for full admission to the college, the applicant must:

1. Submit an application to USF by the appropriate deadline.
2. Submit an application and all supporting materials, including official transcripts, to the College of Nursing by the appropriate deadline.
3. Complete prior to enrollment all state mandated common prerequisites with a grade of "C" or better (for basic baccalaureate students only, completion by application deadline is advised).

4. Maintain a minimum grade point average of 2.5.
5. Complete prior to enrollment all those Liberal Arts courses required for admission to the major (for basic baccalaureate students only, completion by application deadline is advised).

6. Complete all courses required for admission with not more than two (2) repeated courses and not more than one (1) repeat of any given course.

7. Complete the College Level Academic Skills Test (CLAST) or equivalent and the writing and computation course requirements of 6A-10.30 (Gordon Rule).

8. Complete an approved cardiopulmonary resuscitation (BCLS) course prior to enrollment.

9. Provide evidence of current licensure in Florida if enrolling in the program as a registered nurse.

Conditional Admission Policy for Registered Nurses
RN students may be admitted conditionally to the College of Nursing. Students may enroll in the appropriate sequence of the following selected courses while completing these requirements. Nursing courses for the RN Sequence are listed below are in the preferred sequence for enrollment:

- NUR 3113 Culture of Nursing
- NUR 3114 Introduction to Clinical Judgement
- NUR 3064C Health Assessment Across the Life Span
- NUR 4766 Critical Care
- NUR 4765C Rehabilitation Across the Life Span
- NUR 3145 Pharmacology in Nursing Practice
- NUR 3829 Ethic/Legal Aspects in Nursing and Health Care
- NUR 4041 Culture in Nursing Practice
- NUR 4165 Nursing Inquiry
- NUR 4XXX Electives

The following courses are restricted to fully admitted students: NUR 4636, NUR 4636L, NUR 4836, and NUR 4940L.

In addition to the requirements listed, a minimum of at least 6 credits in upper division electives or exit requirements as determined by academic advisor and at least four (4) credits in nursing electives (NUR 4935, Selected Topics in Nursing and/or NUR 4905C). Independent Study in Nursing can be used in addition to regularly approved electives) are required for graduation. Planning with an academic advisor prior to enrollment in upper-level electives is strongly recommended.

Specific Course Requirements
The College of Nursing requires certain courses within the Liberal Arts requirements for the natural, social and behavioral sciences, and mathematics. These requirements are outlined below. Suggested courses are also included. The student must: 1) earn a grade of "C" or better in each state mandated common prerequisite course, 2) repeat no course more than once, 3) repeat no more than two (2) courses. Courses taken at another institution will be evaluated individually on the basis of content. Students in Florida community colleges can obtain information about equivalent courses from their counselors or by contacting the College of Nursing Office of Student Affairs (813-974-9305).

Specific Course Requirements
1. Mathematics/Quantitative Methods: completion of at least one course in mathematics that meets the Gordon Rule requirement and one course in statistics.
   a. Mathematics - one course in college level algebra or finite math must be completed. CLEP subject exams are acceptable.
   b. Statistics - one course in statistics must be completed with a grade of "C" or better. STA 2122 or any STA course
2. Natural Sciences: minimum of 16 semester credits (including anatomy, physiology, and microbiology). Each course taken toward meeting this requirement must have been completed with a grade of "C" or better. At least one course must include a laboratory or have a corequisite laboratory course.
   a. Chemistry - 4 semester credits. Courses should include content in 1) principles of chemistry, 2) structure of matter, 3) atomic and molecular structure, 4) states of matter, 5) chemical formulas and nomenclature, 6) solutions, 7) chemical kinetics and equilibrium, 8) theory and practice of quantitative analysis, 9) organic chemistry. *CHM 2030 (4 credits) or CHM 2045, 2045L can be met with CLEP.
   b. Microbiology - one course, MCB 3030C. The Regents examination in microbiology is acceptable for registered nurse students only.
c. Anatomy and Physiology - 6 semester hours. The Regents examination in anatomy and physiology is acceptable for registered nurse students only.
d. Nutrition - one course. College of Nursing Challenge Examination or University of Florida correspondence course are acceptable. HUN 2201.

3. Social Sciences: Each course taken toward meeting this requirement must have been completed with a "C" or better.
a. Psychology and Sociology - one introductory course in each area. CLEP is acceptable.
b. Human Growth and Development (Life Span) - Must include birth through aging process to death. HUS 4020, DEP 4005 or DEP 3103 and GEY 3000.

CLEP Examinations

In accordance with University policies, College Level Examination Program (CLEP) general and subject examinations may be taken in several areas and according to the University or community college policies related to CLEP. The CLEP general examinations apply toward the distribution requirements at USF, and successful performance results in credit for any or all of the required areas. In addition, credit may be earned for examinations in nursing support courses, in addition to natural, social/behavioral, and upper level electives or exit requirements. planning with an academic advisor prior to enrollment in upper-level electives is strongly recommended.

Regents and College of Nursing Examinations

Successful completion of the following examination(s) can be used to fulfill course requirements as designated below:
1. College of Nursing - Nutrition Challenge Examinations: a total of 3 semester credits can be earned by any undergraduate student to meet the course requirement in nutrition. Information about the College examination in nutrition may be obtained by contacting the College of Nursing Office of Student Affairs, University of South Florida.
2. Registered nurses who are graduates of diploma programs may receive up to 26 semester general elective lower level credits through successful completion of the Regents examinations in nursing. The credits do not apply toward meeting the University requirement of 40 upper level credits, or toward meeting the requirements of the upper level nursing major. The credits earned by passing the Regents examination in nursing apply only to the B.S. degree with a major in nursing offered by the College of Nursing.
3. Registered nurses who are graduates of Florida associate degree programs will receive up to 26 semester lower level credits for their previous nursing education. Graduates of other associate degree nursing programs may receive up to 26 credits after individual evaluation of their transcripts.
4. Registered nurse students may earn up to 6 semester credits and fulfill the college's requirement in anatomy and physiology through successful completion of the Regents examination in anatomy and physiology, and up to 3 credits in microbiology through successful completion of the Regents examination in microbiology. Regents examination information maybe obtained from the Office of Student Affairs, College of Nursing.

Degree Requirements

Students will be certified for the Bachelor of Science degree with a major in nursing upon completion of 124 semester hours comprised of Liberal Arts requirements, science support courses (natural, social/behavioral), required nursing courses, and upper level electives or exit requirements. A minimum grade of "C" or better must be attained in each course in the major and cumulative grade point ratio of 2.0 or better must be maintained throughout the program. At least 40 semester hours must be upper level work (courses numbered 3000 or above).

Nursing Courses - Basic Baccalaureate Sequence

Basic Baccalaureate students meet the following courses in the five semester sequence:

Junior Year (2 semesters)
NUR 3113 Culture of Nursing (2)
NUR 3114 Introduction to Clinical Judgement (3)
NUR 3114L Introduction to Clinical Practice (2)
NUR 3064C Health Assessment Across the Life Span (3)
NUR 3829 Ethical Legal Aspects in Nursing & Health Care (3)
NUR 3145 Pharmacology in Nursing Practice (2)
NUR 3215 Adult Health I (3)
NUR 3215L Clinical Practice in Adult Health II (3)
NUR 3284C Gerontological Nursing (2)

Senior Year (3 semesters)
NUR 4216 Adult Health II (3)
NUR 4216L Clinical Practice in Adult Health II (3)
NUR 4165 Nursing Inquiry (2)
NUR 4041 Culture in Nursing Practice (2)
NUR 4616 Family Health (4)
NUR 4616L Clinical Practice in Family Health (3)
NUR 4636 Community Health (2)
NUR 4636L Clinical Practice in Community Health (2)
NUR 4765C Rehabilitation Across the Life Span (2)
NUR 4838 Leadership/Management (3)
NUR 4525 Psychiatric/Mental Health (2)
NUR 4525L Clinical Practice in Psychiatric/Mental Health (1)
NUR 4766 Critical Care (2)
NUR 4948L Preceptorship (3)

In addition to the requirements listed above, a minimum of 6 credits in upper division electives or exit requirements as determined by academic advisor and 4 credits in nursing electives will be required for graduation. Planning with an academic advisor prior to enrollment in upper-level electives is strongly recommended.

Nursing Courses - Registered Nurse Sequence

Registered nurse students will take selected courses within the basic baccalaureate sequence. For example:
NUR 4636 Community Health (2)
NUR 4636L Clinical Practice in Community Health (2)
NUR 4165 Nursing Inquiry (2)
NUR 4838 Leadership/Management (3)

A statewide AS to BS articulation agreement is under consideration. Registered nurse students should contact the Office of Student Affairs for advisement prior to enrollment.

Prerequisites (State Mandated Common Prerequisites)

The University and the College of Nursing work closely with the community colleges within the USF service area. The University's Liberal Arts requirements and College of Nursing's prerequisite/support courses may be completed through the A.A. degree at the community college. If a student wishes to transfer without an A.A. degree and has fewer than 60 semester hours of acceptable credit, the student must meet the university's entering freshman requirements including ACT or SAT test scores, GPA, and course requirements. The A.A. degree satisfies admission requirements only if courses are carefully selected and include the required major prerequisite/support courses. The College of Nursing requires certain courses within the Liberal Arts requirement for the natural, social and behavioral sciences, and mathematics as listed under the heading "Specific Course Requirements." Students must complete the prerequisite courses listed below prior to being admitted to the upper-division major. Students who do not complete these prerequisites can be admitted to the University, but not to the upper-division major. Unless stated otherwise, a grade of "C" is the minimum acceptable grade.
ADN/MS Program

An ADN to MS program is currently in the developmental stage. Implementation is planned for Fall 1999. The BS application process will be followed. Contact the Office of Student Affairs for further information (974-9305).

Nursing Faculty


Nursing Courses

HUN 2201 NUTRITION (3)
PR: Course work in chemistry and biology or permission of faculty. Open to majors and non-majors. The study of fundamental principles of normal nutrition as they relate to human life and growth from conception through senescence, interpretation of current nutrition information, and application of nutrition knowledge in the establishment of good eating habits.

NUR 2935 SELECTED TOPICS IN NURSING (1-3)
PR: CI. Freshman or sophomore standing. Open to non-majors. Content will depend upon student demand and faculty interest and may focus on any area relevant to health care. May involve class, seminar, and/or observational field experiences (non-clinical). May be repeated for credit for different topics.

NUR 3064C HEALTH ASSESSMENT ACROSS THE LIFE SPAN (3)
PR: Admission to nursing major or CI. Focuses on history taking, physical appraisal skills basic to biopsychosocial assessment across the life span. Emphasizes assessment phase of the diagnostic reasoning process to identify alterations in functional health patterns.

NUR 3113 INTRODUCTION TO CLINICAL PRACTICE (2)
PR: Admission to nursing major or CI. Introduction to evolving role of the professional nurse. Examines historical context of nursing’s development, nursing’s theoretical progression, and wellness-focused practice as a culture.

NUR 3114 INTRODUCTION TO CLINICAL JUDGMENT (3)
Admission to nursing major. Focuses on the basic concepts of health, functional health patterns and communication. Critical thinking is used to analyze the effects of changes in health status and nursing implications.

NUR 3114L INTRODUCTION TO CLINICAL PRACTICE (3)
PR: Concurrent with NUR 3114. Admission to nursing major. Includes laboratory, clinical experiences, and selected psychomotor skills. Beginning application of clinical judgment in implementing therapeutic nursing interventions for adults.

NUR 3145 PHARMACOLOGY IN NURSING PRACTICE (2)
PR: Admission to nursing major or CI. Examines pharmacotherapeutics; pharmacodynamics; pharmacokinetics; adverse reactions and contraindications; therapeutic indications according to functional health patterns; and nursing implications.

NUR 3215 ADULT HEALTH I (3)
PR: NUR 3113, 3114, 3114L, 3064C. Concurrent with NUR 3215L. Nursing Majors. Examines adults with alterations in health maintenance, nutritional/metabolic, elimination, and sexuality/reproductive functional health care patterns. Critical thinking is used to analyze effects of changes in health status.

NUR 3215L CLINICAL PRACTICE IN ADULT HEALTH I (3)

NUR 3284C GERONTOLOGICAL NURSING (2)
PR: NUR 3113, 3114, 3114L, 3064C. Nursing Majors. Focuses on theories of aging and human development; assessment of functional health patterns; and planning health promotion and disease prevention activities for older adults. Critical thinking is used to analyze the effects of interventions on individuals and groups.

NUR 3829 ETHICAL LEGAL ASPECTS IN NURSING AND HEALTH CARE -XMW (3)
PR: NUR 3113 or CI. Nursing Majors. Introduction to contemporary biophysical and legal issues confronting health care providers in a variety of settings. Focuses on identification of legal and ethical principles underlying the decision-making process in nursing and health care.

NUR 4041 CULTURE IN NURSING PRACTICE (2)
PR: NUR 3113 or CI. Nursing Majors. Introduces knowledge and skills needed to give culturally congruent nursing care to people from diverse cultural groups. Compares and analyzes health-related practices, values, beliefs among major cultural groups.

NUR 4165 NURSING INQUIRY (2)
PR: NUR 3113, Nursing Majors or CI. An exploration of the research process. Emphasis on identification of researchable nursing problems and evaluation of research that is applicable to nursing practice.

NUR 4194 AN INTERDISCIPLINARY PERSPECTIVE ON HIV DISEASE -6A -XLW -XMW (3)
Provides an interdisciplinary perspective on HIV disease. Topics include the etiology, spectrum, and treatment of HIV disease; international perspectives; issues of race, gender, and ethnicity; values, ethics, and their influences on responses to HIV; and how the media has shaped the epidemic.

NUR 4216 ADULT HEALTH II (3)
PR: NUR 3829, 3145, 3215, 3215L, 3284C. Concurrent with NUR 4216L. Nursing Majors. Focuses on adults with health problems related to activity/exercise and cognitive/perceptual health patterns. Critical thinking is used to analyze the effects of changes in health status.

NUR 4216L CLINICAL PRACTICE IN ADULT HEALTH II (3)

NUR 4245 WELLNESS: HEALTH PROMOTION AND MAINTENANCE IN NURSING (2)
Introduction to concepts of wellness and health promotion. Concepts of wellness include nutrition, exercise, rest, activity, spiritual factors and their relationship to wellness and
health promotion and application to nursing practice. Open to non-nursing majors.

**NUR 4395C SPECIALIZED TECHNIQUES IN CHILD HEALTH ASSESSMENT** (3)  
Designed to teach the reliable administration and interpretation of the NCAST II and the HOME instruments. Interobserver reliability will be achieved through observation of parent-child interaction.

**NUR 4525 PSYCHIATRIC/MENTAL HEALTH** (2)  

**NUR 4525L CLINICAL PRACTICE IN PSYCHIATRIC/MENTAL HEALTH** (1)  
PR: NUR 4616, 4616L, 4636, 4636L. Concurrent with NUR 4525. Nursing Majors. Focuses on clinical intervention using critical thinking and communication skills with clients who require complex psychiatric rehabilitative care. Opportunities are offered to apply knowledge of psychopathology and psychopharmacologic therapies.

**NUR 4616 FAMILY HEALTH** (4)  
PR: NUR 4216, 4216L. Concurrent with 4616L. Nursing Majors. Focuses on health promotion, identification of risk factors, illness care, disease prevention, and health restoration and maintenance with childbearing and childrearing families.

**NUR 4616L CLINICAL PRACTICE IN FAMILY HEALTH** (3)  
PR: NUR 4216, 4216L. Concurrent with 4616. Nursing Majors. Includes therapeutic interventions for childbearing and childrearing families within a variety of settings.

**NUR 4636 COMMUNITY HEALTH** (2)  
PR: NUR 4216, 4216L. Concurrent with 4636L. Nursing Majors and admission to the major for RN or BS students. Focuses on theories/concepts essential to community health nursing, emphasizing illness prevention and health promotion of individuals, families, communities. Roles of community health nurses and environments that affect health are explored.

**NUR 4636L CLINICAL PRACTICE IN COMMUNITY HEALTH** (2)  
PR: NUR 4216, 4216L. Concurrent with NUR 4636. Nursing Majors and admission to major for RN or BS students. Provides opportunities to engage in community health nursing practice to promote health and prevent illness with individuals, families, and communities.

**NUR 4765C REHABILITATION ACROSS THE LIFE SPAN** (2)  
PR: NUR 4616, 4616L, 4636, 4636L. Nursing Major or CI. Basic concepts of rehabilitation related to human responses. Analysis of the changes in health status and nursing implications.

**NUR 4766 CRITICAL CARE** (2)  
PR: NUR 4616, 4616L, 4636, 4636L. Nursing Majors or CI. Basic concepts of critical care nursing, focusing on selected health problems to analyze the effects of changes in health status.

**NUR 4792 SEXUALLY TRANSMITTED DISEASES AND HIV INFECTION** (2)  
Open to students and caregivers in health related fields. Examines prevalent sexually transmitted diseases and HIV infection from a nursing perspective. Emphasis is on epidemiologic principles, immunology, treatment, prevention, and ethical/legal considerations.

**NUR 4838 LEADERSHIP/MANAGEMENT** (3)  
PR: NUR 4616, 4616L, 4636, 4636L. Nursing Majors and admission to major for RN to BS students. Examines health care delivery systems and explores principles of leadership/management and ethical/legal issues within the systems. Skills of leaders and managers are implemented in nursing practice with individuals and groups.

**NUR 4905C INDEPENDENT STUDY** (1-5)  
PR: Permission of faculty. Open to majors and non-majors. Individual or group investigation of problems relevant to the health of individuals or groups. Project requirements individually planned with faculty preceptor. May be repeated for a maximum of 5 credits.

**NUR 4935 SELECTED TOPICS IN NURSING** (2-8)  
PR: Junior or senior standing or permission of faculty. Content will depend upon student demand and faculty interest and may focus on any area relevant to nursing practice. May involve class, seminar, and/or clinical laboratory and may be repeated for different topics.

**NUR 4938 HONORS SEMINAR** (4)  
PR: Acceptance into the honors program in nursing and CI. The Honors Seminar is designed to provide selected students with an opportunity to explore major works of nursing in-depth and to present, discuss, and defend a proposal for a research project.

**NUR 4948L PRECEPTORSHIP** (3)  
PR: NUR 4525, 4525L, 4616, 4616L, 4636, 4636L. Nursing Majors. Individually contracted practicum collaboratively planned by students, faculty and agency personnel.

**NUR 4975 HONORS THESIS** (2)  
PR: Honors Seminar and CI. The student under the supervision of a faculty advisor will formalize, conduct, analyze and report in writing, and orally a research project in nursing. May be repeated for an additional 2 credit hours.
The College of Public Health began offering courses in 1984 and is fully accredited by the Council on Education for Public Health.

The primary aim of the College is to produce trained health professionals who can meet the pressing health needs of the State and nation. The College also serves as a resource for public health research and information. Often cited as a bellwether state, due in part to its diverse population, Florida serves as an excellent environment for studying current and emerging health care issues.

The field of public health is broad. It focuses upon the prevention of illness, the promotion of health, the control of infectious and chronic diseases and the methods for providing care to targeted populations such as those faced with geographic, financial, cultural and other access barriers.

Public health is concerned with keeping health care costs down and finding cost-effective ways to deal with the medically underserved population. It addresses environmental issues as they affect populations as well as health and safety in the workplace.

Despite this diversity, the common focus of public health is on preventing disease and promoting health in populations.

The Department of Community and Family Health offers an accelerated entry program which enables qualified students to enter the Master of Public Health (MPH) degree program with a concentration in Public Health Education following the completion of 90 semester hours of undergraduate study (usually the end of the junior year). It is recommended that students enroll in undergraduate programs related to the field of public health. These programs include social sciences, natural sciences, behavioral sciences, pre-med, nursing, education, and related fields. Full-time students are able to complete Master's degree requirements in 2 to 2-1/2 years. Interested individuals are encouraged to contact a health education faculty advisor during the term in which they expect to complete 60 undergraduate semester hours.

Students seeking admission to the MPH accelerated degree program must have completed 90 undergraduate semester hours, achieved at least a 3.0 GPA, or a combined verbal and quantitative score of at least 1000 on the GRE, and satisfied the CLAST and Rule 6A-10.3 requirements.

The MPH is a professional, non-thesis degree. The course of study and field experiences are designed to prepare professional health educators to develop, implement, manage and evaluate programs which focus on health promotion and disease prevention. Individual and public health issues encompass the interrelationships of social, behavioral, legal, medical and economic factors. Therefore, the program emphasizes a multidisciplinary approach of developing strategies for the efficient utilization of health services, the adoption of self-care practices, and the promotion of healthier lifestyles. Career opportunities are available in a variety of work settings including hospitals and ambulatory care facilities, managed care organizations, voluntary health agencies, public and private school systems, colleges and universities, local and state health agencies, private industry and international health organizations.

Undergraduate students seeking careers in public health including Health Administration and Management, Environmental Health, Industrial Hygiene, Safety Management, Tropical Public Health, Health Education, Maternal and Child Health, Social and Behavioral Sciences, Epidemiology and Biostatistics should refer to the USF Graduate Catalog in order to plan an undergraduate program that will meet the College of Public Health admission requirements for graduate work. USF undergraduate courses HSC 4203 and HSC 4554 are prerequisites to all graduate study in Public Health. The College also offers special topics courses targeting public health areas and issues.

Students interested in these programs should contact the Office of Academics at the College of Public Health for a career guide and college catalog, 974-6665. For further information go to our web site www.hsc.usf.edu/publichealth

**Public and Community Health Education Courses**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>HSC 2100</td>
<td>CONTEMPORARY HEALTH SCIENCE -SS</td>
<td>3</td>
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<tr>
<td>HSC 2120</td>
<td>SURVEY OF HUMAN DISEASES</td>
<td>3</td>
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<tr>
<td>HSC 2130</td>
<td>INTRODUCTION TO PUBLIC HEALTH</td>
<td>3</td>
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<tr>
<td>HSC 4541</td>
<td>HUMAN STRUCTURE AND FUNCTION</td>
<td>3</td>
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<tr>
<td>HSC 4554</td>
<td>SURVEY OF HUMAN DISEASES</td>
<td>3</td>
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</tbody>
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PR: Fundamentals of Biology with lab or CI. Major concepts of the structure and function of the human body systems and methods by which these concepts may be taught.

PR: CI. The content of this course will be governed by student demand and instructor interest. May be repeated for credit for different topics only.
The Dean of Undergraduate Studies has overall responsibility to enhance the quality of the learning experience in undergraduate programs across all colleges and campuses of the University. The Dean is committed to providing vision and leadership in undergraduate education and to serving the needs of all undergraduate students including those with non-traditional and diverse backgrounds. The Dean serves as the Director of Community College Relations and as such is charged with promoting collaborative relationships and enhancing the articulation between USF and Florida's community colleges. The Dean is responsible for negotiating articulation agreements with community colleges and area school boards.

The Dean of Undergraduate Studies also is the University Student Ombudsman for undergraduate academic matters. The function of the Student Ombudsman is to handle student appeals concerning access to courses and credit granted toward the student's degree. Students who wish to make an appeal should contact the Office of the Dean of Undergraduate Studies. Please contact the Office of the Dean of Undergraduate Studies at SVC 2002, 974-4051 for further information.

The Dean supervises several units and undergraduate academic programs that are not the purview of a single school or college including the offices of Evaluation and Testing, International Student Exchange Program, Off-Campus Term Program, University Housing Program, Air Force ROTC Program, and Army ROTC Program; administers undergraduate student academic appeal processes and waiver policies; acts on recommendations from the Undergraduate Council, the Academic Regulations Committee, the Council on Academic Advising, and the Faculty Committee on Student Admissions; and develops articulation agreements with the community colleges and the area high schools.

**Air Force ROTC**

The Air Force Reserve Officers Training Corps (AFROTC) curriculum includes 12-16 course hours of instruction by active duty Air Force officers over a two- to four-year period. A student who completes the AFROTC program will receive an Air Force commission as a second lieutenant and is guaranteed a position in the active duty Air Force at a starting salary of approximately $28,000 per year.

AFROTC is offered as either a two- or four-year program. The four-year program normally requires a student to successfully complete all degree requirements for award of a bachelor's degree, 16 course hours of AFROTC classes, and a four-week field training encampment between his/her sophomore and junior years. The two-year program gives students who do not enroll in AFROTC during their freshman and sophomore years the opportunity of taking AFROTC. Students should apply for the two-year program by December of the sophomore year. The student attends a six-week field training encampment in the summer prior to program entry. Upon entering the program, the students then complete all undergraduate degree requirements, and 12 credit hours of AFROTC courses.

ROTC students take a 1.5 hour non-credit leadership laboratory in addition to the academic classes. Students wear the Air Force uniform during these periods and are taught customs and courtesies of the Air Force. Leadership Laboratory is open to students who are members of the Reserve Officer Training Corps or are eligible to pursue a commission as determined by the Professor of Aerospace Studies.

AFROTC 4, 3, and 2-year scholarships are available for eligible applicants. These scholarships pay all tuition, fees, books, and a $150 per month tax-free stipend. Non-scholarship students in the final two years are eligible for the Professional Officer Course Incentive (POCI) and the monthly $150 tax-free stipend. Qualified POCI students receive up to $3,450 a year which covers tuition, fees, and books. Those interested in more information about scholarship criteria should contact the AFROTC Department.

Students interested in enrolling in the four-year or two-year programs can begin registration procedures through the ROTC office in HMS 111 or by registering for the appropriate "AFR" course through university registration. Veterans, active duty personnel, and graduate students are encouraged to inquire about special accelerated programs designed for them. The AFROTC phone number is (813) 974-3367.

**Aerospace Studies Faculty**

*Professor:* Lt Col Robert I. Connell; *Assistant Professors:* Capt Kathy Winters, Capt Stacie Neff, Capt Walter Rice.

**Aerospace Studies Courses**

**AFR 1101 THE AIR FORCE TODAY: ORGANIZATION AND DOCTRINE**

(1) Introduction to the Air Force in the contemporary world through a study of its total force structure and mission.

**AFR 1125 THE AIR FORCE TODAY: STRUCTURE AND ROLES**

(1) A study of the strategic offensive and defensive forces, general purpose forces, and aerospace support forces that make up the Air Force of today.

**AFR 2001 LEADERSHIP LABORATORY**

(0) Leadership Laboratory is required for each of the Aerospace Studies courses. It meets one hour and 45 minute per week. Instruction is conducted within the framework of an organized cadet corps with a progression of experiences designed to develop each student's leadership potential. Leadership Laboratory involves a study of Air Force customs and courtesies; drill and ceremonies, career opportunities in the Air Force; and the life and work of an Air Force junior officer. Students develop their leadership potential in a practical laboratory, which typically includes field trips to Air Force installations.

**AFR 2000 ENHANCED PHYSICAL FITNESS TRAINING**

(0) Required of all students in AFR 2000-, 3000-, and 4000-level classes. It meets twice a week for an hour each session. Concentrates on motivational physical fitness, healthy lifestyle and cadet esprit.

**AFR 2130 U.S. AIR POWER: ASCENSION TO PROMINENCE**

(1) A study of air power from balloons and dirigibles through the jet age. Emphasis is on the employment of air power in WWII and and WWII and how it affected the evolution of air power concepts and doctrine.

**AFR 2140 U.S. AIR POWER: KEY TO DETERRENCE**

(1) A historical review of air power employment in military and nonmilitary operations in support of national objectives. Emphasis is on the period from post WWII to present.

**AFR 2150 FIELD TRAINING**

(0) Field Training is offered during the summer months at selected Air Force bases throughout the United States. Students in the four-year program participate in four weeks of Field Training, usually between their sophomore and junior years. Students applying for entry into the two-year program must successfully complete six weeks of Field Training prior to enrollment in the Professional Officer Course (POC). The major areas of study in the Field Training program include junior officer training, aircraft and aircrew orientation; career orientation, survival training, base functions and Air Force environment, and physical training.

**AFR 2220 AIR FORCE LEADERSHIP AND MANAGEMENT I**

(3) An integrated management course emphasizing the individual as a manager in an Air Force milieu. The individual motivational and behavioral processes, leadership, communication, and group dynamics are covered to provide a foundation for the development of the junior officer’s professional skills as an Air Force officer (officership). The basic managerial processes involving decision making, utilization of analytic aids in planning, organizing, and controlling in a changing environment are emphasized as necessary professional concepts.
AFR 4201 NATIONAL SECURITY FORCES IN CONTEMPORARY AMERICAN SOCIETY I (3) A study of the Armed Forces as an integral element of society, with an emphasis on American civil-military relations and context in which U.S. defense policy is formulated and implemented. Special themes include: societal attitudes toward the military and the role of the professional military leader-manager in a democratic society.

AFR 4211 NATIONAL SECURITY FORCES IN CONTEMPORARY AMERICAN SOCIETY II (3) A continuation of the study of the Armed Forces in contemporary American society. Concentration is on the requisites for maintaining adequate national security forces; political, economic, and social constraints on the national defense structure; the impact of technological and international developments on strategic preparedness; the variables involved in the formulation and implementation of national security policy; and military justice and its relationship to civilian law.

Army ROTC (Reserve Officers' Training Corps)
The Department of Military Science for Army Reserve Officers Training Corps (ROTC) was established to select and prepare students to serve as officers in the Regular and Reserve components of the United States Army. The curriculum is designed to develop the students' leadership potential as well as improve the students' planning, organizational, and managerial skills.

Army ROTC training is divided into two phases: the first two years constitute the Basic Course; the last two the Advanced Course. The Department offers both a four- and a two-year program, each leading to a commission as a second lieutenant in the United States Army. The four-year program requires completion of the Basic Course, a five-week field training course, and the Advanced Course. Students with prior active military service or previous training at military schools may exempt some or all of the Basic Course. Students with questions concerning the various options should contact the Professor of Military Science for more information. Army ROTC training is offered to both men and women students and provides free uniforms and textbooks. Enrollment is open to qualified students at all levels, including graduate students. Offerings are published each semester.

Scholarships are awarded on a competitive basis in all academic majors. The scholarship pays for tuition, books, lab fees, and certain other academic expenses.

All Advanced Course and scholarship students receive $150.00 per month for subsistence. This is in addition to the pay of approximately $700.00 while attending the five-week field training course at the Summer Advanced Camp.

**Basic Course:** The Basic Course consists of four semesters of classroom instruction of one hour each week. Students incur no military commitment by participating in the Basic Course.

**Advanced Course:** The Advanced Course is designed to prepare the student who desires to be a Professional Army Officer for duty, either Reserve, National Guard, or Active Army. The training consists of four semester of classroom instruction of three hours each week, lab, field training exercises, and a five-week training phase at summer Advanced Camp.

The newly commissioned officer can be guaranteed Reserve or National Guard duty, or compete for an Active Duty commission. Prior to commissioning the student may request to serve in a number of career fields to include; aviation, engineering, medical, law, law enforcement, logistics, and personnel administration.

**Requirements for an AROTC Commission:** Students who desire to earn a commission as a second lieutenant in the United States Army must meet the following requirements: Four semesters of the ROTC Advanced Course, successfully complete the Professional Military Education Courses (written communication skills, computer literacy, and military history), attend Advanced Camp, maintain and graduate with a minimum of a 2.0 GPA, pass the Army Physical Readiness Test and meet the height and weight, and requirements of the United States Army.

**Military Science Faculty**
Professor: LTC Gloria A. Atkinson; Assistant Professors: MAJ Al Carroccetto, CPT Robert Hardbarger, CPT John Wright, SFC Nicholas Davis

**Military Science Courses**
Students not attending on an Army Scholarship may take the 1000 and 2000 level courses with no obligation to the Army. Army Scholarships and service obligation options are discussed in class.

**MIS 1001 MILITARY TRAINING MANAGEMENT AND INSTRUCTIONAL TECHNIQUES** (1) Learn/apply principles of effective leading. Reinforce self-confidence through participation in physically and mentally challenging exercises. Develop communication skills. Relate organizational ethical values to the effectiveness of a leader.

**MIS 2601 MILITARY TRAINING MANAGEMENT AND INSTRUCTIONAL TECHNIQUES** (1) Learn/apply ethics-based leadership skills that develop individual abilities and contribute to the building of effective teams. Develop skills in oral presentations, writing, planning, coordination of group efforts, fundamentals of ROTC's Leadership Development Program.

**MIS 2610 LEADERSHIP ASSESSMENT** (1) Introduction to individual and team aspects of military tactics in small unit operations, radio communications, making safety assessments, movement techniques, planning for team safety/security and methods of pre-execution checks. Learn techniques for training others as an aspect of continued leadership development.

**MIS 2610L LEADERSHIP LABORATORY** (0) Required with all classes. Involves leadership responsibilities for the planning, coordination, execution and evaluation of various training and activities. Students develop, practice and refine leadership skills by serving and being evaluated in a variety of responsible positions.

**MIS 3302 SMALL UNIT OPERATIONS** (3) PR: MIS 1000, MIS 1400, MIS 2601, MIS 2610. Series of practical opportunities to lead small groups, receive personal assessments and encouragement, and learn again in situations of increasing complexity. Uses small unit operations and opportunities to plan and conduct training for lower division students both to develop such skills and practicing leading.

MIS 4410 ARMY AS A PROFESSION
PR: MIS 3404. Designed to prepare cadets for duty as commissioned officers. Instruction centers around proficiency/familiarization with the military justice system, military administration, the Officer Professional Management System, international laws of war, and principles of management/leadership.

MIS 4421 SEMINAR IN MILITARY LEADERSHIP AND MANAGEMENT
PR: MIS 4410. Provides a basic understanding of the professional soldier's responsibilities to the Army and the nation. Attempts to improve ethical decision-making skills through an examination of the need for ethical conduct, greater awareness and sensitivity to ethical issues, and the opportunity to apply these abilities in real world case study situations. Included are seminars to acquaint the new lieutenant with his/her relationship to NCO's, company grade officers, and senior officers.

MIS 4930 ADVANCED DIRECTED STUDY AND RESEARCH
PR: CI and permission of Professor of Military Science. Intensive individual study in a particular aspect of military science that is not covered in regular course offerings. Request for enrollment must be made prior to registration in the form of a written proposal. May be repeated for credit.

Evaluation and Testing
The Office of Evaluation and Testing serves four principal functions:
1. Admissions, Academic and Placement Testing: Tests required for admission to colleges, graduate and professional schools as well as many other special tests are administered by this office. Examples are the SAT, ACT, CPT, CLAST, GRE, MCAT, and LSAT.
2. Scanning and Scoring Services: Analysis and advisory services are offered to aid in construction and validation of tests used in classes. Survey design and data analysis are available for research purposes. Testing and analysis by machine are provided. This office also coordinates the student assessment of instruction process.
3. Credit-By-Examination: The College-Level Examination Program (CLEP) is administered through this office. Information on other programs such as the Advanced Placement Test (APT) is available.
4. College Level Academic Skills Test (CLAST): This office, in addition to administering the CLAST, implements many of the rules and policies of the College Level Academic Skills Program (CLASP).

University Honors Program
Superior students may avail themselves of Honors opportunities at USF. University Honors Program-Four Year Track is designed for first-time-in-college students. University Honors Program-Two Year Track is designed for transfer or upper-level students. These exciting programs are grounded in the liberal arts tradition and intended for students regardless of major. The primary goals of University Honors are the development of critical thinking skills, an appreciation of the liberal arts tradition and the development of creative, independent thought.

Students in the Four Year Program take nine Honors courses, four of which are selected from the disciplines examine the question of how society is organized. These courses satisfy the English and Math science that is not covered in regular course offerings.

Thesis. Students may enroll in both University and Departmental Honors. Students in two Honors Programs are required to complete only one Thesis.

Admission to University Honors is determined by the University Honors Committee and the Director of Honors; admission to Departmental Honors is determined by the individual department. Students who satisfactorily complete Honors and graduate with at least an overall GPA of 3.3 and a USF GPA of 3.3 shall be identified as Honors Program Graduates at Commencement as well as on their diplomas and transcripts.

Honors Program Faculty
Director: Stuart Silverman (Instructors for the Honors courses are recruited from among the University's outstanding teacher-scholars).

Honors Program Courses

IDH 2009 DISCOVERY: PEOPLE, PROCESSES AND PROBLEMS
PR: Admission to the Honors Program. An appreciation of the research process in multiple disciplines culminating in the production of a collaboratively developed research proposal.

IDH 2010 ACQUISITION OF KNOWLEDGE
PR: Admission to the Honors Program. An appreciation of the problems of how human understanding proceeds through operations such as perception, classification, and inference, among others, as well as the open philosphic questions behind these operations.

IDH 3100 ARTS/HUMANITIES HONORS
PR: IDH 2010. An introduction to western arts and letters from the perspectives of three historical periods (classicism, romanticism, and modernism), the relationship of ideas to art, the similarities among the arts of a given period, and important differences between periods.

IDH 3350 NATURAL SCIENCES HONORS
PR: IDH 2010. An exploration of current knowledge concerning fundamental principles in the Sciences, their potential for application and attendant ethical and philosophical questions.

IDH 3400 SOCIAL AND BEHAVIORAL SCIENCES HONORS
PR: IDH 2010. Introduction to the concerns of the Social and Behavioral Sciences, methods of inquiry, discovery, and manipulation of knowledge. A survey of the way various disciplines examine the questions of how society is organized.

IDH 3600 SEMINAR IN APPLIED ETHICS
PR: IDH 2010. This course explores ethical issues related to selected topics such as Ethics of Technology, Ethics in
Business, Bio-Medical Ethics, or Personal Ethics Development.

IDH 4000 HONORS PROGRAM SEMINAR: MAJOR WORKS/MAJOR ISSUES (4)
PR: IDH 2010. This course explores major works and major issues in a variety of disciplines. Each section will be devoted to content in a different academic area.

IDH 4200 GEOGRAPHICAL PERSPECTIVES HONORS (3)
PR: IDH 2010. An introduction to African, Latin American, Middle Eastern, or Asian perspectives focusing on social, political and economic, artistic, cultural and intellectual subject matter. The material will be presented within a geographical, chronological, and humanities background.

IDH 4970 HONORS THESIS (3)
PR. Senior Honors Standing. The development and public presentation of a senior thesis under the direction of a mentor. Course is taken for 2 semesters.

St. Petersburg Campus Honors Program
The St. Petersburg Campus offers an interdisciplinary Campus Honors Program to superior students in all majors who have transferred to USF with or without an A.A. degree. The Campus Honors Committee and Director determine admission to the program. Applications should be submitted to the Director. Students will participate in two Honors Seminars and complete either an Honors Project or Honors Thesis. The fourteen (14) hours of Campus Honors Program courses satisfy the Liberal Arts Exit Requirements. Scholarships are available to those admitted to the program.

St. Petersburg Campus Honors Program Courses
IDH 4000 HONORS PROGRAM SEMINAR: MAJOR WORKS AND MAJOR ISSUES (4)
PR: IDH 2010. This course explores major works and major issues in a variety of disciplines. Each section will be devoted to content in a different academic area. Course is taken for 2 semesters.

IDH 4970 HONORS THESIS (3)
PR. Senior Honors Standing. The development and public presentation of a senior thesis under the direction of a mentor. Course is taken for 2 semesters.

International Student Exchange Program (ISEP)
Undergraduate Studies maintains cooperating programs for the exchange of undergraduate students with various universities in England, France, Scotland, Australia, Israel, Sweden, Japan, Korea, Russia and Mexico. These exchanges are provided through the International Student Exchange Program (ISEP). Because new schools are continuously added to the ISEP, an updated listing of exchange universities is available from the ISEP office.

Courses Outside Undergraduate Colleges
These courses are open to all students in the University.

Architecture
ARC 4784 THE CITY - 6A -XMW (3)
This course examines the history of the city, as both idea and reality, with a particular focus on Western cities, and the 20th century. The course is open to undergraduates and students in the Graduate Architecture Program.

Cooperative Education
IDS 3949 COOPERATIVE EDUCATION (0)
PR: 60 hours of academic credit, acceptance in Cooperative Education Program. (S/U only.)

Medicine
BMS 4402 PRINCIPLES OF HUMAN PHARMACOLOGY -NS (3)
Pharmacodynamics (effects), pharmacokinetics (absorption, distribution, metabolism, excretion) and side effects/toxicity of drugs. Designed to provide a basic understanding of mechanism of drug action resulting from modifying biological processes. Not available on S/U basis.
GENERAL COURSE INFORMATION
UNIVERSITY OF SOUTH FLORIDA - 1999/2000 UNDERGRADUATE CATALOG

NOTE: The State Department of Education is charged with the development and coordination of a common course designation and numbering system for community colleges and the State University System which will improve program planning, increase communication among community colleges and universities, and facilitate the transfer of students. As part of this effort, changes will be made system-wide in course prerequisites, course levels, etc. These changes are not reflected in this catalog and will be implemented during the academic year. Students should check with the academic advising office in their college or regional campus, the Center for Academic Advising for undeclared majors, or the Office of the Dean of Undergraduate Studies for current information.

Courses offered for credit by the University of South Florida are listed on the following pages in alphabetical order by college and subject area. 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 commas indicate unified courses offered in different semesters.

AMH 2010, 2020 AMERICAN HISTORY I, II (4,4)

HUM 4905 DIRECTED RESEARCH (1-5)
The abbreviation “var.” also indicates variable credit:

MAT 7912 DIRECTED RESEARCH (var.)

The following abbreviations are utilized in various course descriptions:

PR Prerequisite
CI With the consent of the instructor
CC With the consent of the chairperson of the department or program
CR Corequisite
Lec. Lecture
Lab. Laboratory
Dem. Demonstration
Pro. Problem
Dis. Discussion

SPECIAL INFORMATION COURSE CODES
6A Courses to satisfy Rule 6A-10.30 (Gordon Rule)
EC Course fulfills part of the Liberal Arts General Education Requirement for English Composition
FA Course fulfills part of the Liberal Arts General Education Requirement for Fine Arts
HP Course fulfills part of the Liberal Arts General Education Requirement for Historical Perspectives
NS Course fulfills part of the Liberal Arts General Education Requirement for Natural Sciences
AF Course fulfills part of the Liberal Arts General Education Requirement for African, Latin American, Middle Eastern, or Asian Perspectives
QM Course fulfills part of the Liberal Arts General Education Requirement for Qualitative Methods
SS Course fulfills part of the Liberal Arts General Education Requirement for Social Sciences
X LW Course fulfills part of the Liberal Arts Exit Requirement for Literature and Writing
X M W Course fulfills part of the Liberal Arts Exit Requirement for Major Works and Major Issues

The University reserves the right to substitute, not offer, or add courses that are listed in this catalog.

Alphabetical Listing of Departments and Programs

Course descriptions are listed by college under the following department and program headings:

Department/Program College
Accounting Business Administration
Administration/Supervision Education
Adult Education Education
Africana Studies Arts and Sciences
Air Force ROTC University-wide Courses
American Studies Arts and Sciences
Ancient Studies (Religious Studies) Arts and Sciences
Anthropology Arts and Sciences
Arabic (Language) Arts and Sciences
Army ROTC University-wide Courses
Art Fine Arts
Art Education Fine Arts

Astronomy Arts and Sciences
Basic of Independent Studies Arts and Sciences
Basic and Interdisciplinary Engineering
Biology Engineering
Business and Office Education Arts and Sciences
Chemistry Engineering
Chemical Engineering Engineering
Chinese (Language) Arts and Sciences
Civil and Environmental Engineering
Classics Arts and Sciences
Common Body of Knowledge Business Administration
Communication Arts and Sciences
Communication Sciences and Disorders Arts and Sciences
Community Experiential Learning Program Arts and Sciences
Computers in Education Education
Computer Science and Engineering Engineering
Computer Service Courses Engineering
Cooperative Education University-wide Courses
Criminology Arts and Sciences
Dance Fine Arts
Early Childhood Education Education
Economics Business Administration
Electrical Engineering Engineering
Elementary Education Education
English Arts and Sciences
English Education Education
Environmental Science & Policy Arts and Sciences
Finance Business Administration
Fine Arts Interdisciplinary Fine Arts
Foreign Language Education Education
Foreign Language Education Education
French (Language) Arts and Sciences
General Business Administration Business Administration
General Foreign Languages Arts and Sciences
Geography Arts and Sciences
Geology Arts and Sciences
Gerontology Arts and Sciences
German (Language) Arts and Sciences
Government & International Affairs Arts and Sciences
Greek (Classics) Arts and Sciences
Hebrew (Language) Arts and Sciences
Higher Education Education
History Arts and Sciences
Honors Program University-wide Courses
Humanities Arts and Sciences
Human Services Arts and Sciences
Industrial and Management Systems Engineering
Industrial/Technical Education Education
Information Systems & Decision Sciences Business Administration
Interdisciplinary Studies Arts and Sciences
International Studies Arts and Sciences
Italian (Language) Arts and Sciences
Japanese (Language) Languages
Latin (Classics) Languages
Liberal Studies Arts and Sciences
Library & Information Science Arts and Sciences
Linguistics Arts and Sciences
Management Business Administration
Marine Science Arts and Sciences
Marketing Business Administration
Mass Communications Arts and Sciences
Mathematics Arts and Sciences
Mathematics Education Education
Mechanical Engineering Engineering
Measurement and Research Education
Mechanical Engineering Engineering

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florida's statewide course numbering system

Courses in this catalog are identified by prefixes and numbers that were assigned by Florida's Statewide Course Numbering System (SCNS). This common numbering system is used by all public postsecondary institutions in Florida and by two participating private 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 assigns 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 meaning in the 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 "course equivalency profiles."

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 the 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 31 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 this course at a specific institution. In the SCNS taxonomy, "SYG" means "Sociology, General," the century digit "0" represents "Entry-Level General Sociology," the decade digit "1" represents "Survey Course," and the unit digit "0" represents "Social Problems."

In science and other areas, a "C" or "L" after the course number is known as a lab indicator. The "C" represents a combined lecture and laboratory course that meets in the same place at the same time. The "L" represents a laboratory course or the laboratory part of a course, having the same prefix and course number without a lab indicator, which meets at a different time or place.

Transfer of any successfully completed course from one participating institution to another is guaranteed in cases where the course to be transferred is offered by the receiving institution and is identified by the same prefix and last three digits at both institutions. For example, SYG 1010 is offered at a community college. The same course is offered at a state university as SYG 1010. 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 if the student transfers. The student cannot be required to take SYG 2010 again since SYG 1010 is equivalent to SYG 2010. Transfer credit must be awarded for successfully completed equivalent courses and used by the receiving institution to determine satisfaction of requirements by transfer students on the same basis as credit awarded to native students. It is the prerogative of the receiving institution, however, to offer transfer credit for courses successfully completed which have not been designated as equivalent.

Sometimes, as in Chemistry, a sequence of one or more courses must be completed at the same institution in order for the courses to be transferable to another institution, even if the course prefix and numbers are the same. This information is contained in the individual SCNS course equivalency profiles for each course in the sequence.

Course Prefix: The course prefix is a three-letter designator for a major division of an academic discipline, subject matter area, or sub-category of knowledge. The prefix is not intended to identify the department in which a course is offered. Rather, the content of a course determines the assigned prefix used to identify the course.

Authority for Acceptance of Equivalent Courses: State Board of Education Rule 6A-10.024(17), Florida Administrative Code, reads:

When a student transfers among institutions 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 equivalent to courses offered at the receiving institution and are entered in the course numbering system. Credit so awarded can be used by transfer students to satisfy requirements in these institutions on the same basis as native students.

Exceptions to the General Rule for Equivalency: The following courses are exceptions to the general rule for course equivalencies and may not be transferable. Transferability is at the discretion of the receiving institution:

A. Courses in the _900--999 series (e.g., ART 2905)
B. Internships, practica, clinical experiences, and study abroad courses
C. Performance or studio courses in Art, Dance, Theater, and Music
D. Skills courses in Criminal Justice
E. Graduate courses

College preparatory and vocational preparatory courses may not be used to meet degree requirements and are not transferable.

Questions about the SCNS and appeals regarding course credit transfer decisions should be directed to Office of the Dean, Undergraduate Studies, USF, SVC 2002, 4202 East Fowler Avenue, Tampa, FL 33620-6920, or the Florida Department of Education, Office of Postsecondary Education Coordination, 1101 Florida Education Center, Tallahassee, FL 32399-0400. Special reports and technical information may be requested by calling telephone number (850) 488-6402 or Suncom 278-6402.
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Director, Student Health Services Administrative Services (Acting) BRIAN MOCKLER
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All members of the University of South Florida faculty are listed below in alphabetical order. The listing includes name, current rank and field, first year of continuous appointment to any position in the institution, degrees, and institution of terminal degree. (A semicolon between degrees indicates different institutions.)

"[Faculty]

AAGENBRUG, ROBERT, Professor (Geography), 1989

ABBOTT, DARCY A., Associate in Research (Community & Family Health), 1993

ABE, NAOMI, Assistant Professor (Surgery), 1994

ACKERMANN, JOHN R., Professor (Surgery), 1983

ADAMS, VALERIE H. G., Assistant Professor (English), 1993

ADAMS, VALERIE A., Instructor, Music, 1998

ADAMS, W. MICHAEL, Professor (Internal Medicine), 1983

ADNANE, JALILA, Assistant Professor (Biochemistry), 1997

ADNANE, JALILA, Assistant Professor (Biochemistry), 1997

AFFRONTI, MARTA I., Assistant Professor (Physiology), 1999

AGRAI, DEEPNATH, Professor (Computer Science), 1999

AGRAI, DEEPNATH, Professor (Computer Science), 1999

AGRAI, DEEPNATH, Professor (Computer Science), 1999

AGRAI, DEEPNATH, Professor (Computer Science), 1999

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HOLMES, JOAN B., Faculty Administrator (McNair Scholarship), 1987

B.S.; M.A.; Ed. D., Ball State University, 1985

HOLSONBACK, CAROLE D., Visiting Instructor (Nursing), 1995

B.S.; M.S.N., University of Florida, 1988

HOLSTRUM, GARY L., Professor (Accounting), 1989

B.A., Ph.D., University of Iowa, 1970

HOLT, DOUGLAS, Professor (Sociology and African American), 1995

B.S.; M.D., University of South Alabama, 1984

HOLTZHAUSEN, DERINA R., Assistant Professor (Mass Comm), 1997

B.A., M.A., University of Denver, 1996

HOMAN, SUSAN P., Professor (Childhood Education), 1978

B.A.E.; M.A.E., Ph.D., University of Florida, 1978

HONGYAN, ALLEN, Assistant Professor (Med Micro & Immunology), 1997

B.S., D.D., Kansas University, 1988

HONKE, H. ANDREW, Associate Professor - Director (Physical Education Facilities & Administration), 1965

B.S.; M.S., University of Illinois, 1965

HOPKINS, THOMAS L., Professor-Program Director (Marine Science), St. Petersburg Campus, 1967

B.A., M.D., Florida State University, 1964

HORTON, JOHN, Professor (Internal Medicine), 1993

M.B. Ch., University of Sheffield Medical School, 1957

HOU, WEILING, Research Associate (Marine Science), 1997

B.A., M.S., Ph.D. University of South Florida, 1997

HOUSSON, SALLY H., Assistant Professor (Internal Medicine), 1992

B.S.; M.D., Vanderbilt University, 1987

HUGH prescriptions and basis (Psychological & Social Foundation) 1996

B.A., M.A., University Of Kentucky, 1974

HOWARD, PATRICK T., Visiting Assistant in (Psychological & Social Foundation) 1996

B.A., M.A., University Of South Florida, 1997

HULBARY, WILLIAM E., Professor (Government & International Affairs), 1976

B.A., M.D., University of South Carolina, 1976

HUMPHREY, JAMES C., Visiting Assistant Professor (Pediatrics), 1996

B.A., M.A., Ph.D., University of Arizona, 1998

HULLETT, LEE A., Instructor/Librarian (Health Sciences Library), 1975

B.S., M.A., East Tennessee State University, 1987

HU, XIAOTANG, Research Assistant Professor (Internal Medicine), 1994

B.S.; M.S., Ph.D., East Tennessee State University, 1997

HUBBELL, DAVID S., Professor (Surgery), 1964

A.B., M.D., Duke University, 1945

HUFFMAN, DEBRA E., Professor (Marine Science), 1993

B.S., University of South Florida, 1995

HUFNAGEL, ELLEN M., Assistant Professor (Information Systems & Decision Sciences), 1988

B.A., M.S., University of Pittsburgh, 1988

HULLAR, WILLIAM E., Professor (Government & International Affairs), 1976

B.A., M.A., Ph.D., University of Iowa, 1972

HUMPHREY, DRAYTON, Assistant Professor (Internal Medicine), 1995

B.A., M.D., D.O., Southeastern University, 1991

HUMPHREY, JAMES C., Assistant in Research (Florida Institute of Oceanography), 1992

B.S., University of Florida, 1991

HUMPHREY, MARY LISA, Instructor (Communication Sciences & Disorders), 1997

B.S., M.S., James Madison University, 1987

HUNTON, JAMES E., Assistant Professor (Accounting), 1996

B.A., M.B.A., University of South Florida, 1996

HURST, IRENE J., Coordinator (Small Business Development Center), 1990

B.A., M.A., B.A., University of South Florida, 1996

HUTCHINSON, JR., WILLIAM S., Assistant Professor (Social & Behavioral Science), 1977

B.A., M.S.W., University of Georgia, 1968

HVIZDALA, EVA V., Professor (Pediatrics), 1978

M.D., Charles University School of Medicine, Prague, 1969

HYDE, JUDITH L., Assistant in (Psychological & Social Foundation) 1996

B.A., M.A., Ph.D., University of Arizona, 1998

HYER, KATHRYN, Faculty Administrator (FLA Policy Exchange Center), 1998


IERARDI, DOMINIC, Professor (Language), 1970

B.A., M.A., Ph.D., New York University, 1974

IHDE, DANIEL C., Professor (Internal Medicine), 1998

B.S., M.D., Stanford University, 1969

INGALLS, ROBERT P., Chairperson-Professor (History), 1974

B.A., M.A., Ph.D., Columbia University, 1973

IPOLITI, ANNA M., Research Instructor (Education) 1986

B.A., M.A., University Of South Florida, 1972

ISAAC, SAMUEL, Associate Professor (Mathematics), 1968

M.Sc., Ph.D. Indiana University, 1965

ISMAIL, MOURAD E. H., Professor (Mathematics), 1987

B.S., M.Sc., University of Hawaii, 1987

JAAK, CAROLYN B., Assistant University Librarian (University Library), St. Petersburg Campus, 1995

B.A., M.A., University of South Carolina, 1975

JABLONSKI, CAROL J., Associate Professor (Communication), 1996

B.A., M.A., Ph.D., Purdue University, 1979

JACKSON, CHRISTIAN, Assistant in (Anesthesiology), 1991

B.S., Oregon State University, 1985

JACOBSEN, PAUL B., Associate Professor (Dean's Office - Arts and Sciences), 1994

B.A., Ph.D., Wesleyan University, 1983

JACOBSON, HOWARD N., Professor (Public Health), 1988

B.S., M.D., Northwestern University, 1950

JAHN, VUYA K., Graduate Research Professor (Electrical Engineering), 1972

B.E.; M.E.; Ph.D., Michigan State University, 1964

JAMES, MELVIN W., Counseling/Advisor and Instructor (Academic Support & Achievement), 1996

B.S.; M.A., Ph.D., University of Florida, 1984

JAMES, NAVITA, Program Director and Associate Professor (Communication), 1961

B.A., M.A., Ph.D., Ohio State University, 1981

JAMES, WAYNE B., Professor (Leadership Development), 1984

B.A., M.S., Ed. D., University of Tennessee, 1976

JAMESON, KIRSTEN M., Faculty Administrator (Community & Family Health), 1997

B.A., M.A., M.S., S.F., Ph.D., University of Arizona, 1998

JAYASRI, WARREN W., Associate Professor (Music), 1983

B.M., M.M., M.D., Indiana University, 1981

JEFFERS, DELORES F., Faculty Administrator (Community & Family Health), 1987

JENNINGS, MICHELLE R., Assistant In (Business Administration Undergraduate Advising) 1995

B.A., M.A.B.A., University Of South Florida, 1995

JOHANNINGMEIER, ERWIN V., Professor (Psychological and Social Foundations, Education), 1988

B.S.; M.A., Ed. D., University of Illinois, 1977

JOHNS, REBECCA A., Associate Professor (Geography) 1996

B.A., M.S., Ph.D., Rutgers University, 1994

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B.A., M.A., Ph.D., University of California, San Francisco, 1970

B.S., M.B.A., D.B., Georgia State College, 1973

JOHNSON, DALLA E., Professor (Graduate School), 1997

B.S., M.S., Ph.D., University of Chicago, 1971

JOHNSON, JAYNE A., Instructional Specialist (Law & Mental Health), 1998

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JONES, CATHY H., Counselor/Advisor - Instructor (Academic Support & Achievement), 1991

B.A., M.A., B.S., University of Florida, 1985

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WALKER, ROBERT H., Associate Professor (Internal Medicine), 1989
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WALLACE, TARY L., Instructor (Educ Mesures & Research), 1995
M.Ed., B.S., University of South Florida, 1986
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WALSH, FRANK W., Assistant Professor (Internal Medicine), 1989
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A.B., M.S., Ph.D. of University of Miami, 1969
WALSETRUM, KATHERINE, Assistant Professor (New College-Natural Science), 1998
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B.S., Georgia State University, 1984
WANG, CHUN ZAI. Visiting Assistant in Research (Marine Science), 1995
M.S., Ph.D., University of South Florida, 1995
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B.S., Ph.D., University of Tsukuba, Japan, 1992
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B.M., M.M. of University Of South Florida, 1990
WARD, BEVERLY C., Assistant Director (Center for Urban Transportation Research), 1991
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WARD, JOHN C., Associate Professor-Associate Chairperson (Community Mental Health), 1982
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WARNER, ELIZABETH A., Associate Professor (Internal Medicine), 1990
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WARNEN, GREGORY W., Professor (Dance), 1993
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B.A., Florida State University.
WATTS, ELIZABETH L., Assistant Professor (Secondary Education), 1998
Ph.D. Florida State University, 1997
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B.A., M.A. Ph.D., University of Southern California, 1980
WEATHERFORD, ROY C., Professor (Philosophy), 1972
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WEATHERS, LAURA S., Assistant Professor (Pediatrics), 1992
B.S., M.D., University of South Florida, 1994
WEBB, SUSAN C., Faculty Administrator (Public Health), 1994
B.A., M.S.W. University of South Florida, 1993
WECKER, LYNN, Chairperson - Graduate Research Professor (Pharmacology) 1993
B.S., M.D., University of South Florida, 1993
WEBER, BRENDA W., Instructor (Adult & Vocational Edu), 1996
B.S., M.P.A., A.B.D., University of South Florida, 1983
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WATSON, BRIERIE C., Assistant in (Computer Operations-St. Pete), 1996
B.A., Florida State University.
WALTERS, JACOB W., Assistant Professor (Health), 1996
B.S., Ph.D. of University of Florida, 1997
WHEELER, WILLIAM J., Visiting Lecturer (Information Systems & Decision Sciences), 1995
B.A., M.S.; Ph.D., Pennsylvania State University, 1994
WEEN, SHENG, Assistant Professor (Biology), 1990
B.S., M.S.; Ph.D., University of Florida, 1998
WEBER, CONRAD J., Associate Professor (Chemistry), 1967
B.S., M.S., Ph.D., University of Michigan, 1976
WELTON, ROBERT L., Instructor in (Medical Terminology), 1995
B.S., M.P.H., University of South Florida, 1995
WELTON, RICHARD S., Visiting Instructor (Biology), 1996
B.S., M.D., University of South Florida, 1996
WELTON, THOMAS L., Associate Professor (Biology), 1995
B.S., M.S.; Ph.D., University of South Florida, 1995
WELTON, WILLIAM S., Assistant Professor (Biology), 1997
B.S., M.S., M.D., University of South Florida, 1997
WELTON, JOHN J., Associate Professor (Biology), 1994
B.S., M.S., Ph.D., University of South Florida, 1994
WELTON, JAMES R., Assistant Professor (Biology), 1999
B.S., M.S., M.D., University of South Florida, 1999
WELLER, THOMAS J., Assistant Professor (Engineering), 1995
B.S., M.S., Ph.D., University of Michigan, 1995
WELLS, KAREN E., Assistant Professor (Surgery), 1989
B.S., M.D., University of California, San Diego, 1989
WEN, MICHAEL K., Assistant Professor (Industrial and Management Systems Engineering), 1995
B.S., M.S.; Ph.D., Pennsylvania State University, 1994
WENZINGER, GEORGE R., Associate Professor (Chemistry), 1963
A.B., Ph.D., University of Rochester, 1960
WERNER, GARY L., Instructor (Mass Communications), 1989
B.A., M.A., Idaho State University, 1989
WESSELINK, PEGGY J., Instructor (Government & International Affairs), 1995
B.A., L.P.N., Ph.D. University of Iowa, 1990
WEST, LISA C., Associate Professor (Diagnostic Imaging), 1997
B.S.W., Master of Science in Nursing, 1997
WEST, ROBERT, Professor (Bus. Adm.-Accounting), 1964
B.S., M.S., Florida State University, 1964
WESTBERRY, RICHARD C., Assistant in (Adult & Voc Ed), 1997
M. Central Connecticut State University, 1986
WESTHOFF, WAYNE W., Assistant Professor (College of Public Health-Deans), 1995
B.A., B.A.; M.S.W., M.P.H., University of South Florida, 1994
WEHREL, THOMAS L., Professor (Management), 1983
WHEELER, JAN, Instructor (Provo's Office), New College, 1984
B.A., University of California, 1973
WHEELER, RAYMOND H., Professor (Bachelor of Independent Studies), 1965
B.S., M.A.; Ph.D., University of Michigan, 1962
WHEATSELL, KATHRYN, Faculty Administrator (Dean's Office-Administration), 1965
B.S., M.A., University of Florida, 1965
WRIGHT, KENNETH L., Assistant Professor (Biochemistry), 1997
WORSHAM, LYNN, Professor (English), 1998
WORRELL, JAY H., Professor (Chemistry), 1967
*WOOLFENDEN, GLEN E., Graduate Research Professor (Biology), 1960
WOOLEY, CATHERINE J., Associate in (College of Ed.), 1997
WOODBRIDGE, DAVID D., Visiting Assistant Professor (Public Health), 1989
WOODARD, LAURIE J., Associate Professor (Family Medicine), 1986
WOLFSON, JAY, Director and Professor (Public Health Information Center), 1984
WOLFE, ALVIN W., Distinguished Professor (Anthropology), 1974
WOHLMUTH, SONIA R., Lecturer (Library & Information Sciences), 1994
WITKIND, MARK J., Instructor (Communication Sciences & Disorders), 1990
WITANACHCHI, SARATH, Associate Professor (Physics), 1990
WISE-NEELY, VICTORIA M., Faculty Administrator (College of Public Health-Achievement), 1989
WYNN, MARJORIE J., Assistant Professor (Academic Programs) Lakeland Campus, 1991
ZELDER, DANA L., Associate Professor (Secondary Education), 1996
ZELGER, ANDREWS A., Acting Academic Administrator (Chemistry), 1995
ZELLER, B. D., Ph.D., University of South Florida, 1972
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