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University of South Florida

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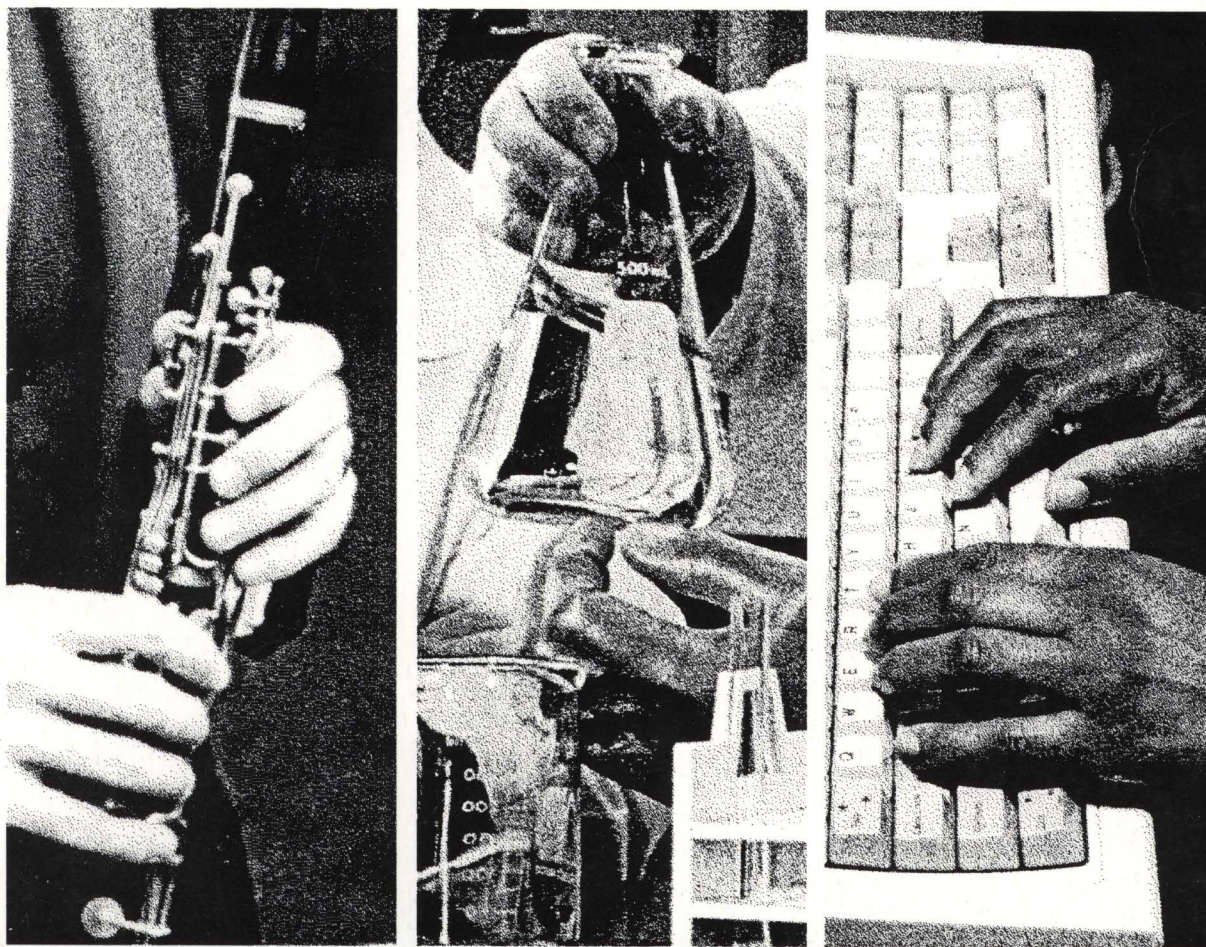
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Undergraduate Catalog

USF



University of South Florida — 1993/1994

ACCENT ON LEARNING

UNDERGRADUATE CATALOG

OF THE

UNIVERSITY OF

SOUTH FLORIDA

1993-94



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.

Self-guided cassette tours of the Tampa campus are available at the University Center Information Desk.

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, Fort Myers, Lakeland, or Sarasota campuses. Mailing addresses and general telephone numbers for the campuses are given at the bottom of this 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

Academic Advising (for upperclassmen)

Arts & Sciences, SOC 110 974-2503

Business Admin., BSN 1406 974-4290

Education, EDU 309 974-3390

Engineering, ENG 104 974-2684

Fine Arts, FAH 120 974-3660

Nursing, MDN 1028 974-2191

Pre-Medical, SCA 240 974-2674

Academic Services for Students with Disabilities

Coordinator, SVC 2043 974-4309

VOICE/TTY

Applications and Admissions

Office of Admissions, SVC 1036 974-3350

New College 359-4269

Office of Admissions (Sarasota)

Athletics (Intercollegiate)

Director of Athletics, PED 214 974-2125

Bachelor of Independent Studies Program

External Degree Program, HMS 443 974-4058

Career Development

Counseling Center for Human Development, SVC 2124 974-2831

or 974-2866

Career Resource Center

Alumni Placement Services, SVC 2088 974-2171

Cooperative Education Program, SVC 2088 974-2171

Senior Placement Services, SVC 2088 974-2171

College Level Examination Program (CLEP tests)

Office of Evaluation and Testing Services, SVC 2054 974-2741

Community College Relations (transfer students)

Office of Community College Relations, SVC 2080 974-2506

Continuing Education Courses and Conferences

School of Continuing Education, MGZ 144 974-2403

Division of Conferences and Institutes, MGY 153 974-5731

English Language Institute, CPR 107 974-3433

Counseling

Counseling Center for Human Development, SVC 2124 974-2831

or 974-2866

Financial Assistance (scholarships, loans, employment)

Office of Financial Aid, SVC 1102 974-4700

Office of Student Employment, SVC 1037 974-2297

Graduate Studies

Graduate School, FAO 126 974-2846

Health Services (Student)

Health Center, SHS 101 974-2331

Honors Program - University-wide

Office of the Director, CPR 273 974-3087

Housing: Campus Residence Halls

Office of Housing and Food Service, RAR 234 974-4310

Housing: Off-Campus

Student Government Office, CTR 203 974-3749

International Student Center

Office of the Advisor, CTR 259 974-5102

Library Resources

Tampa Campus: Office of the Director of Libraries, LIB 207 974-2721

Fort Myers Campus: ECC/USF Learning Resources Center 489-9220

St. Petersburg Campus: Office of the University Librarian 893-9125

Sarasota Campus: Office of the Librarian 359-4300

Tuition Waiver For Senior Citizens

Division of Lifelong Learning, MGZ 144 974-2403

Minority Student Advising

Center for Academic Advising, SVC 2011 974-2645

Orientation

Office of the Director, SVC 2002 974-3060

PACE

MGZ 144 974-3218

Parking and Traffic Services

University Police Department, UPB 002 974-3990

Pre-Admission Advising for Prospective Freshman,

International, Mature, Minority, and Transfer Students

Office of Admissions, SVC 1036 974-3350

Reading Study Skills

Counseling Center for Human Development, SVC 2124 974-2831

or 974-2866

Records, Registration

Office of the Registrar, SVC 1034 974-2000

Speakers Bureau

Media Relations and Publications, ADM 264 974-4014

Student Affairs

Office of Student Affairs, ADM 151 974-2151

Transcripts USF

Office of the Registrar, SVC 1034 974-2000

Transfer (Undergraduate) Student Problems

Office of Community College Relations, SVC 2080 974-2506

Undergraduate Studies

Dean of Undergraduate Studies, SVC 2002 974-4051

University Police

Emergencies 911

UPB 002 974-2628

Veterans Services

Office of Veterans Services, SVC 2127 974-2291

UNIVERSITY OF SOUTH FLORIDA

Tampa Campus
4202 Fowler Avenue
Tampa, Florida 33620
Telephone (813) 974-2011

Fort Myers Campus
College Parkway
Fort Myers, Florida 33907
Telephone (813) 489-9501

St. Petersburg Campus
140 Seventh Avenue South
St. Petersburg, Florida 33701
Telephone: (813) 893-9563

Sarasota Campus
5700 N. Tamiami Trail
Sarasota, Florida 34243
Telephone (813) 359-4200

Lakeland Campus
3433 Winter Lake Road
Lakeland, Florida 33803
Telephone (813) 688-1221

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1993

ACADEMIC CALENDAR

FALL SEMESTER, 1993

MAY						
S	M	T	W	T	F	S
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2	3	4	5	6	7	8
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16	17	18	19	20	21	22
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30	31					

JUNE						
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JULY						
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AUGUST						
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SEPTEMBER						
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OCTOBER						
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NOVEMBER						
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DECEMBER						
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March 1	Monday
June 1	Tuesday
June 1	Tuesday
August 23	Monday
August 27	Friday
August 27	Friday
August 27	Friday
August 27	Friday
September 3	Friday
September 6	Monday
September 17	Friday
October 2	Saturday
October 15	Friday
October 22	Friday
November 11	Thursday
November 25-26	Thursday-Friday
December 7	Tuesday
December 8-11	Wed.-Sat.
December 13-14	Mon.-Tues.
December 15	Wednesday

Last day for international applicants to apply for admission and submit all required credentials and supporting documents

Last day for graduate and undergraduate students to apply for admission (except international applicants)

Former Student Returning Application Deadline

Classes begin

Last day to withdraw/drop and receive full refund of registration fees

Last day to add courses

Last day for late registration

Last day to pay fees

CLAST Registration Deadline

Labor Day Holiday

Graduation Application Deadline

CLAST Administration Day

Honors Convocation (Classes Cancelled 2:00-5:00 p.m.)

Last day to drop or withdraw from courses without academic penalty

Veterans Day Holiday

Thanksgiving Holidays

Last day of classes

Final Examinations

Final Examinations

Commencement (Tampa)

SPRING SEMESTER, 1994

August 2	Monday
October 25	Monday
October 25	Monday
January 6	Thursday
January 12	Wednesday
January 12	Wednesday
January 12	Wednesday
January 12	Wednesday
January 17	Monday
January 21	Friday
February 4	Friday
February 19	Saturday
March 9	Wednesday
March 14-18	Monday-Friday
April 25	Monday
April 26-30	Tuesday-Saturday
May 2	Monday
May 2	Tuesday
May 3	Tuesday
May 4	Wednesday
May 5	Thursday
May 6	Friday

Last day for international applicants to apply for admission and submit all required credentials and supporting documents

Last day for graduate and undergraduate students to apply for admission (except international applicants)

Former Student Returning Application Deadline

Classes begin

Last day to withdraw/drop and receive full refund of registration fees

Last day to add courses

Last day for late registration

Last day to pay fees

Martin Luther King Holiday

CLAST Registration Deadline

Graduation Application Deadline

CLAST Administration Day

Last day to drop or withdraw from courses without academic penalty

Spring Semester Break

Last day of classes

Final Examinations

Final Examinations

Torchlight Ceremony (following the last final examination)

Commencement (Tampa)

Commencement (St. Petersburg)

Commencement (Ft. Myers)

Commencement (Sarasota)

SUMMER TERM, 1994**SESSION A****(First Six-week Session)**

January 3	Monday	Last day for international applicants to apply for admission and submit all required credentials and supporting documents
March 7	Monday	Last day for graduate and undergraduate students to apply for admission (except for international applicants)
March 7	Monday	Former Student Returning Application Deadline
May 6	Friday	CLAST Registration Deadline
May 11	Wednesday	Classes begin
May 17	Tuesday	Last day to withdraw/drop and receive full refund of registration fees
May 17	Tuesday	Last day to add courses
May 17	Tuesday	Last day for late registration
May 17	Tuesday	Last day to pay fees
May 30	Monday	Memorial Day Holiday
May 31	Tuesday	Last day to drop or withdraw from courses without academic penalty
June 4	Saturday	CLAST Administration Day
June 10	Friday	Graduation Application Deadline
June 21	Tuesday	Last day of classes
June 22-24	Wednesday-Friday	Summer Break between Session A and Session B
June 27-28	Monday-Tuesday	Summer Break between Session A and Session B

SESSION B**(Second Six-week Session)**

January 3	Monday	Last day for international applicants to apply for admission and submit all required credentials and supporting documents
March 7	Monday	Last day for graduate and undergraduate students to apply for admission (except for international applicants)
March 7	Monday	Former Student Returning Application Deadline
June 10	Friday	Graduation Application Deadline
June 29	Wednesday	Classes begin
July 4	Monday	Independence Day Holiday
July 5	Tuesday	Last day to withdraw/drop and receive full refund of registration fees
July 5	Tuesday	Last day to add courses
July 5	Tuesday	Last day for late registration
July 5	Tuesday	Last day to pay fees
July 19	Tuesday	Last day to drop or withdraw from courses without academic penalty
August 9	Tuesday	Last day of classes

SESSION C**(Ten-week Session)**

January 3	Monday	Last day for international applicants to apply for admission and submit all required credentials and supporting documents
March 7	Monday	Last day for graduate and undergraduate students to apply for admission (except for international applicants)
March 7	Monday	Former Student Returning Application Deadline
May 6	Friday	CLAST Registration Deadline
May 11	Wednesday	Classes begin
May 17	Tuesday	Last day to withdraw/drop and receive full refund of registration fees
May 17	Tuesday	Last day to add courses
May 17	Tuesday	Last day for late registration
May 17	Tuesday	Last day to pay fees
May 30	Monday	Memorial Day Holiday
June 4	Saturday	CLAST Administration Day
June 10	Friday	Graduation Application Deadline
June 21	Tuesday	Last day to drop or withdraw from courses without academic penalty
July 4	Monday	Independence Day Holiday
July 19	Tuesday	Last day of classes

JANUARY

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FEBRUARY

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MARCH

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APRIL

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MAY

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JUNE

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JULY

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AUGUST

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ACCREDITATION

USF was fully accredited in 1965 by the Southern Association of Colleges and Schools, the official accrediting agency for educational institutions in the South. A self-study of the University's programs and purposes is required periodically to insure a firm foundation for the future growth of the University. Accreditation was reaffirmed in December, 1973 and December, 1984.

DEGREES* OFFERED AT THE UNIVERSITY

Undergraduate Degrees

Bachelor of Arts
Bachelor of Engineering Technology
Bachelor of Fine Arts
Bachelor of Independent Studies
Bachelor of Music
Bachelor of Science
Bachelor of Science in Chemical Engineering
Bachelor of Science in Civil Engineering
Bachelor of Science in Computer Engineering
Bachelor of Science in Computer Science
Bachelor of Science in Electrical Engineering
Bachelor of Science in Engineering
Bachelor of Science in Engineering Science
Bachelor of Science in Industrial Engineering
Bachelor of Science in Information Systems
Bachelor of Science in Mechanical Engineering
Bachelor of Social Work

B.A. Master of Health Administration
B.E.T. Master of Liberal Arts
B.F.A. Master of Music
B.I.S. Master of Public Administration
B.M. Master of Public Health
B.S. Master of Science
B.S.C.H. Master of Science in Chemical Engineering
B.S.C.E. Master of Science in Civil Engineering
B.S.C.P. Master of Science in Computer Engineering
B.S.C.S. Master of Science in Computer Science
B.S.E.E. Master of Science in Electrical Engineering
B.S.E. Master of Science in Engineering
B.S.E. Master of Science in Engineering Management
B.S.E.S. Master of Science in Engineering Science
B.S.I.E. Master of Science in Industrial Engineering
B.S.I.S. Master of Science in Information Systems
B.S.M.E. Master of Science in Mechanical Engineering
B.S.W. Master of Science in Medical Sciences
Master of Science in Public Health
Master of Social Work

M.H.A.
M.L.A.
M.M.
M.P.A.
M.P.H.
M.S.
M.S.C.H.
M.S.C.E.
M.S.C.P.
M.S.C.S.
M.S.E.E.
M.S.E.
M.S.E.M.
M.S.E.S.
M.S.I.E.
M.S.I.S.
M.S.M.E.
M.S.M.S.
M.S.P.H.
M.S.W.

Graduate Degrees

Master of Accountancy
Master of Architecture
Master of Arts
Master of Business Administration
Master of Civil Engineering
Master of Education
Master of Engineering
Master of Fine Arts

M.Acc.
M.Arch. **
M.A.
M.B.A.
M.C.E.
M.Ed.
M.E.
M.F.A.

Advanced Graduate Degrees

Education Specialist
Doctor of Education
Doctor of Philosophy

Ed.S.
Ed.D.
Ph.D.

Professional Degree

Doctor of Medicine

M.D.

*See index for individual degree programs

**In cooperation with FAMU

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.

USF - A COMPREHENSIVE RESEARCH UNIVERSITY

UNIVERSITY OF SOUTH FLORIDA - 1993/94 UNDERGRADUATE CATALOG

MISSION STATEMENT UNIVERSITY OF SOUTH FLORIDA

Since its beginnings in the late 1950's as a single-campus undergraduate institution, the University of South Florida has become a comprehensive, multi-campus research university serving more than 35,000 headcount students in ten colleges. USF is home to medical clinics and hospitals, a major mental health research institute, and four public broadcasting stations. The University employs more than 1,650 full-time faculty and generates over \$50 million annually in sponsored research. Its endowment exceeds \$52 million and includes 38 endowed chairs. USF faculty are making national contributions in their fields, and their commitment to quality education is central to the University's teaching, scholarship, and service mission.

Now the second largest of Florida's state universities, USF serves not only traditional-age, residential students but also adult students already in the workforce and seeking a first degree, professionals seeking to remain or become competitive by continuing their education through graduate study, community college transfer students, and senior citizens. A large number of students attend part-time. This diverse student body requires a broad array of services and programs, delivered at times and in formats that accommodate the needs of all.

USF offers a wide variety of degree programs with both basic and applied orientations, including 77 baccalaureate, 87 master's, and 22 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 & Sciences, Business, 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 individual student's talents to the fullest.

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, FORT MYERS, SARASOTA, ST. PETERSBURG, LAKE LAND

The University of South Florida's five campuses are within reach of more than three million people roughly one quarter of the state's population - in a 15-county area.

The USF academic programs offered in St. Petersburg, Sarasota, Fort Myers, 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 is located on a 1,748-acre tract of land 10 miles northeast of downtown Tampa, a city of almost 300,000 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 Shriners' Hospital for Crippled Children, the H. Lee Moffitt Cancer Center and Research Institute, and the University Psychiatry Center. The University is also home to the 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 University Center, more so than any other campus facility, serves as a focal point for daily activity for students, faculty, administration, alumni, guests, and visitors. The UC houses a diversity of programs and services and a new Special Events Center auditorium.

FORT MYERS: The Fort Myers campus serves more than 630,000 people in the five counties on Florida's lower west coast. The campus, which is located on a 55-acre site adjacent to Edison Community College (ECC) on College Parkway, just a few minutes from Interstate 75, was officially dedicated in November 1982.

The University of South Florida at Fort Myers serves students at the junior, senior and graduate levels. Twenty full and partial degree programs are offered in Arts and Sciences, Business Administration, Education, and Nursing. In addition, elective courses are offered in a number of disciplines.

As a commuter campus, USF at Fort Myers has a varied student population. The campus draws from many age groups, ranging from transfer students who finish their first two years of college immediately after high school, to working professionals seeking advanced degrees and "non-degree" students who are taking courses to satisfy teacher certification requirements and other professional criteria.

The Division of Student Affairs helps extend the University experience to include cultural and recreational activities. The Student Government Association (SGA) represents student interests and sponsors events and programs which benefit the student body and the University. Students also are invited to participate in clubs and organizations which offer opportunities to meet other students with similar interests. The Barbara B. Mann Performing Arts Hall, owned jointly with ECC, offers a wide range of musical and theatrical productions.

SARASOTA: The Sarasota 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 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 Charles Ringling 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

8 GENERAL INFORMATION

UNIVERSITY OF SOUTH FLORIDA - 1993/94 UNDERGRADUATE CATALOG

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 a 24-acre site surrounding Bayboro Harbor in downtown St. Petersburg. It is the only public university offering bachelor's and graduate degree programs in Pinellas County, an area of 900,000 people.

USF at St. Petersburg is the largest of USF's regional campuses, and was the prototype regional campus for Florida's State University System. USF at St. Petersburg first opened its doors in 1965 to 257 freshmen students. Since 1968, the campus has served only junior, senior and graduate students.

Campus facilities have evolved from the original Merchant Marine training base into seven modern buildings that serve about 3,000 students. The campus houses a 140,000-volume library and media resource center, a bookstore, marine research laboratories, a cafeteria and fitness center. Buildings slated for the campus include a larger library and a marine research facility.

USF at St. Petersburg's academic programs have evolved significantly over the past quarter century. The campus now holds several endowed chairs. A total of 26 bachelor's and 12 master's degrees is now offered, as well as a doctorate in marine science.

The campus is recognized nationally for its graduate marine science program, and the U.S. Geological Survey recently established its national Center for Coastal Geology there. The Florida Institute of Oceanography and a branch of the Florida Marine Research Institute also are located on campus.

The campus is a hub for other important efforts, including the St. Pete office of the Small Business Development Center, and the Bishop Program for Ethical Leadership Studies. 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 to serve more than 490,000 persons in the counties of Polk, Highlands and Hardee.

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 courses in Business, Criminology, 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 businesses - by providing highly skilled professionals from the two institutions.

FACILITIES AND ATMOSPHERE

The facilities of the University, 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. USF's Tampa campus has a variety of recreational facilities, including: a gymnasium that features a weight room, and natatorium; a 400-meter track; two outdoor swimming pools; twenty-two tennis courts; six handball/racquetball courts; an 18-hole golf course; two parcourses, one for running and one for walking; one baseball and four softball fields; four outdoor basketball and volleyball courts; and the Sun Dome sports and recreation complex.

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 are a 400-meter track and a new library, while the Fort Myers campus has the new Barbara B. Mann Performing Arts Hall.

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 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, located at the intersection of Maple Drive and Fletcher Avenue, provides a full range of public safety services to the community 24 hours a day, seven days a week. All University police officers are commissioned law enforcement officers of the state of Florida.

Services provided include car patrol, foot patrol, criminal investigations and prosecution of all misdemeanors and felonies, traffic enforcement and accident investigation, special events management and crime prevention programs. The telephone number for on-campus emergencies (personal injuries, fires, crimes in progress) is **911. CAMPUS BLUE LIGHT EMERGENCY PHONES REPORT DIRECTLY TO THE USF POLICE DEPARTMENT.** The telephone number for on-campus non-emergencies and business is 974-2628.

VICTIM'S ADVOCACY PROGRAM

The Victims' Advocacy Program is available to assist all USF students or employees who are victims of actual or threatened violence, including but not limited to battery, assault, sexual battery (date rape, acquaintance rape, stranger rape), and attempted sexual battery.

Police reports are strongly encouraged; however, reports are not required for information and referral assistance.

SERVICES

The USF Victims Advocate will assist by providing information, support, and guidance in the following ways:

1. Crisis Intervention.
2. Emergency shelter, medical help, and counseling referrals.
3. Assistance as needed.

IMPORTANT NUMBERS

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

POLICE EMERGENCY 911 OR 974-2628

USF VICTIM ADVOCATE
ON-CALL 974-5757
LOCATION ADM 273

HILLSBOROUGH COUNTY CRISIS LINES
CRISIS LINE 238-8821
SEXUAL ABUSE LINE 238-7273

EQUAL OPPORTUNITY COMPLAINT PROCEDURE

Discrimination on the basis of race, color, sex, marital status, religion, national origin, Vietnam or disabled veteran status, handicap, or age is prohibited by federal laws and University policy. Moreover, it is the goal of the University to create and maintain a work and study environment. Faculty, staff, and students must be aware that sexual harassment is sex discrimination, and is conduct

that will not be accepted at the University. Any applicant, student, or employee who believes that he or she has not been treated in accordance with the University's Equal Educational and Equal Opportunity Policy, may file a complaint with the Director 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: The Office for Academic Services for Students with Disabilities coordinates auxiliary learning aid assistance to eligible students with disabilities. Course related assistance and accommodations such as reader services, interpreters, alternate exam administration, notetakers, and adaptive equipment such as TELEX FM systems, large print computer access/Visualteks are available through this office. Students who require no direct academic assistance may qualify for priority registration upon supplying medical documentation of their disability. Students are encouraged to contact this office prior to enrollment to make arrangements for the planning of 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 Distribution, foreign language requirements, or CLAST should contact the Coordinator of Academic Services for Students with Disabilities. 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:

Tampa Campus

Coordinator of Academic Services for Students with Disabilities
SVC 2043 813-947-4309

Sarasota Campus

Coordinator for Advising for Special Needs Students
PMD 223 813-359-4330

Lakeland Campus

Office of the Director for Academic Services
Building C, USF Offices 813-677-7000

St. Petersburg Campus

Office of the Director, Student Affairs
DAV 118 813-893-9162

Ft. Myers Campus

Office of Student Affairs
Howard Hall 118 813-432-5574

For assistance with extracurricular accessibility or accommodations, students should contact the Office of Equal Opportunity Affairs, ADM 274, (813) 974-4373.

ADMISSIONS AND RELATED MATTERS

UNIVERSITY OF SOUTH FLORIDA - 1993/94 UNDERGRADUATE CATALOG

The Office of Admissions administers the application and admissions processes for undergraduate and graduate students and assists prospective students in securing information about the University of South Florida (USF).

Admission to the University of South Florida requires evidence of ability to handle academic work, capacity to think creatively, and strong motivation. The minimum admissions requirements are designed to help identify applicants whose academic work and background indicate potential for success at USF. However, satisfaction of minimum admissions 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 personal records. 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 these factors or on the basis of handicap. Applicants who are racial and ethnic minorities, disabled, Vietnam-era veterans or above traditional college age and who do not meet minimum admissions 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 minority and 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 missions and goals of the University and with enrollment limitations established by the Board of Regents and the Florida Legislature. The University's enrollment plan establishes the priorities for admission. In order, these priorities are: (1) transfer students with A.A. degrees from Florida community/junior colleges or from other SUS institutions who have not attended another institution after earning the A.A. degree; (2) graduate students; (3) freshman students; (4) other transfer students with 60 or more hours; (5) transfer students with fewer than 60 hours. Within the categories above, Florida residents have first priority, followed by non-Florida residents, and then international students living outside of the United States. Exceptions to these established priorities may be made for applicants whose addition to the student body helps the University's aims and commitment to equal opportunity/affirmative action goals, academic excellence, and other special needs.

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 USF 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, Fort Myers, and Lakeland. (When requesting an application, please indicate applicant category - freshman, undergraduate transfer, or international student.)

When to Apply

Applications for admission are accepted as early as 12 months before the requested entry date. Applications for admission and the \$20.00 non-refundable application fee must be submitted by the

published University application deadline (see *academic calendar*) for the requested entry date or by the application deadline for the requested degree program (see specific program in this catalog), whichever is earlier. The University application deadline is normally about ten weeks prior to the first day of classes in each term. Applications for admission and application fees from international citizens (non-resident aliens) must be received at least five months prior to the requested entry date. The application for admission and the application fee may be returned to the sender when the application is received after the published closing date or after any enrollment limit or program limit is reached for the requested term of entry (see Changing Requested Term of Entry, below).

For freshman and undergraduate transfer applicants, the *deadline for receipt of the credentials is two weeks after the governing application deadline*. For all international and graduate applicants, the *deadline for receipt of credentials is the same as the governing application deadline*.

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 minority and disadvantaged applicants if the fee serves as a deterrent to application. In case of confirmed financial hardship, the Director of Admissions will authorize Finance and Accounting to pay the fee for the applicants.

Changing Requested Term of Entry

Applicants may request consideration of admission for other terms that begin within 12 months of the originally requested term of entry without submitting a new application and fee. All requests for changes of entry dates must specify any college(s) attended or college 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. 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 date.

An applicant who requests a new entry date must meet the admissions requirements in effect for the new term requested. Entry dates 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. However, SAT and ACT scores reflected on the high school transcript are considered official.
- 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.
- 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 Academic Skills Test (CLAST) prior to receiving an A.A. or baccalaureate degree from the University. Transfer students entering USF with fewer than 45 transferable semester hours must take CLAST during the term in which 45 semester hours will be completed. Transfer students entering USF with 45 or more transferable semester hours must take CLAST the first term it is offered after initial enrollment.
 - Prior to beginning classes, all new undergraduate students and former students returning are *required* to participate in an Orientation/Academic Advising/Registration program on the USF campus where they will take all or the majority of courses in their first semester at USF. These programs are designed to help new students become acquainted with the University, choose courses, register for classes, and complete all other necessary procedures. New students receive Orientation/Academic Advising/Registration information after admission. Students enrolling for Fall Semester (August) at USF in Tampa are encouraged to participate in the Summer Orientation/Academic Advising/Registration program for new undergraduates and parents. The orientation packet will automatically be mailed to admitted students beginning in April. Former students returning are required to participate in the college advising portion of this program prior to registering for courses.
- 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.)
- Performance in courses taken as a non-degree-seeking (special) student will not qualify an applicant for admission as a degree-seeking student. Similarly, courses taken as a non-degree-seeking student will not be utilized in determining an applicant's grade point average for admissions purposes.
 - A non-degree-seeking (special) 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.
 - Freshman and undergraduate transfer applicants denied admission to USF as degree-seeking students will not be permitted to enroll as non-degree-seeking (special) students.

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 admissions criteria and procedures for quota/limited access programs at USF furnish equal access to A.A. degree holders from Florida public community/junior colleges, A.A. degree transfers from other SUS institutions, and USF students of equivalent status. Transfer applicants with 90 or more transferable semester hours who are seeking admission to quota/limited access programs must meet the grade point average requirement specified by the program to be eligible for admission to USF.

USF, with approval of the Board of Regents and the Articulation Coordinating Committee, has established the following undergraduate programs as quota/limited access: *Liberal Studies, Mass*

Communications, Social Work, and the B.A./M.A. Program in Mathematics in the College of Arts and Sciences; *all degree programs* in the College of Business Administration; *all degree programs* in the College of Education; *all degree programs* in the College of Engineering; *all degree programs* in the College of Nursing and New College. The admissions requirements for these degree programs may be found with other program information in appropriate sections of this catalog.

Minimum Requirements for Admission

Freshman Applicants

To be considered for admission, freshman applicants must submit an SUS Application 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 admissions 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 may 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 and advanced placement 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. 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 failure to satisfy the requirement should be submitted with the application for admission.
3. Freshman applicants must meet one of the following:
 - 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 verbal and quantitative combined score of 900 or a comparable composite score on the ACT as indicated in the Admissions Scale below:

REQUIRED TEST SCORE

H.S. GPA	SAT	ACT
2.9	860	20
2.8	870	20
2.7	880	20
2.6	890	21
2.5	900	21
2.4	930	21
2.3	960	22
2.2	990	23
2.1	1020	24
2.0	1050	25

- c. A GED diploma with an overall percentile score of at least 60 for all five tests and a percentile score of at least 50 on each of the five tests and an SAT verbal and quantitative combined score of 900 or an ACT composite score of 21;
 - d. Appropriate alternative evidence of academic achievement, ability, motivation and responsibility that indicates potential for successful academic work at USF.
4. A first-time-in-college applicant whose native language is not English must present a minimum score of 550 on the Test of English as a Foreign Language (TOEFL). 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 with the condition that they must take a specified sequence of English courses. International citizens (non-resident aliens) must also comply with all requirements for admission of international applicants (next page).
 5. First-time-in-college applicants seeking admission at the freshman level to a limited access degree program in Engineering must meet additional requirements specified by the program.

Early Admission Applicants (Freshmen)

USF provides an early admission program to meet the needs of highly capable, mature high school students. Under the early admission program these students may enter the university as regularly enrolled, degree-seeking students prior to graduation from high school. To be considered for early admission, an applicant must submit an SUS Application for Admission, a non-refundable application fee of \$20.00, an official high school transcript, SAT or ACT scores, and a TOEFL score if applicable. The Supplemental Information for Early Admission Form (available from the Office of Admissions in Tampa), and a personal letter outlining reasons for seeking early admission are also required. While early admission applicants are evaluated on an individual basis, those admitted generally present at least a 3.5 high school grade point average (as computed by USF) and a combined score of at least 1150 on the SAT or a composite score of at least 27 on the ACT. In addition, early admission applicants should be enrolled in a strong college-preparatory curriculum while in high 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.

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.

USF reserves the right to evaluate specific courses and deny transfer credit. USF does not award transfer credit from two-year institutions 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 meet the following minimum requirements:

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) in all college-level courses acceptable for transfer credit to USF (incomplete grades are computed as failures);
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 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 ability to do successful academic work at USF. 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:

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) in all college-level courses acceptable for transfer credit to USF (incomplete grades are computed as failures);
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/junior 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 ability to do successful academic work at USF. These applicants should also submit appropriate alternative evidence of academic achievement, ability, motivation and responsibility that indicates a potential for academic success at USF.

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

Excellent students may avail themselves of Honors opportunities at USF. University Honors is designed for first-time-in-college freshmen. This exciting program is grounded in the liberal arts tradition and is intended for students regardless of intended 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 this program take eight Honors courses that include: the philosophical inquiry into the nature of human knowledge, ethics, interdisciplinary studies in the sciences, social sciences, arts and humanities, a student-designed Honors Seminar, and a Senior Thesis or Project (see Course Descriptions). University Honors students also complete six semester hours of English, six semester hours of mathematics, and four to eight hours of foreign language. Honors students may satisfy the English and mathematics requirements through AP or CLEP. University Honors students satisfy the General Distribution Requirement by completing the core Honors courses and the English, math and foreign language requirement. Enrolling in University Honors does not increase academic workload or the number of credits needed to graduate.

Potential University Honors students are actively recruited, but any interested student who feels that he/she may be qualified may request admission. Students typically have 3.50 high school GPA's and 1200 SAT or 28 ACT scores. Some scholarships are available for University Honors students.

Departmental Honors Programs are available in selected departments that wish to offer Honors-level work for exceptional students majoring in their disciplines. Requirements vary according to department, but all require the completion of a thesis or project. 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 University Honors and graduate with at least an overall GPA of 3.30 and a USF GPA of 3.30 shall be identified as Honors Program graduates at Commencement as well as on their diplomas and transcripts.

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 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], and USF Florida Public Community College Dual Enrollment).
 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 advisors for further information concerning the application of this credit toward their degree requirements.

Internal devices (such as auditions, portfolio reviews, and placement tests) utilized in the various departments for the sole purpose of determining a student's most appropriate area, level, or section placement in a program of study are not to be construed as examining mechanisms for the granting of credit.

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 Community College Counseling Manual which is available in all counseling offices. This manual, prepared and distributed by the USF Office of Community College Relations, explicitly describes the undergraduate program requirements that should be followed to ensure maximum ease of transfer into the students' upper-level programs on a par with their native USF counterparts.

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 degree-seeking students may only enroll as non-degree-seeking students if they have completed their previous degree program or 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 and must adhere to deadline dates published in the University Class Schedule. 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 Undergraduate Studies/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 Lifelong Learning for further details.

* See Florida residency requirements in this catalog.

Dual Enrollment (High School)

Dual enrollment in USF classes is open to academically qualified students currently enrolled in high school who are recommended by their guidance counselor or principal. (An applicant should secure the Dual Enrollment Recommendation Form from the Office of Admissions in Tampa.) High school students seeking dual enrollment status are preadvised by and obtain the Non-Degree-Seeking Registration Form from the Center for Academic Advising in the Undergraduate Studies Office on the Tampa Campus. Dual enrollees register as non-degree-seeking students and are admitted to USF classes on a space-available basis during the first week of every semester. Up to 14 semester hours of college credits earned at USF through dual enrollment may be applied toward a student's USF undergraduate degree upon admission and enrollment as a degree-seeking student after high school graduation.

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 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 academic advising program on the USF campus where they will take all or the majority of their courses. Former students returning will receive academic advising 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.)

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 will also 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 past course work to discuss advisement and placement with the appropriate academic advisor and should 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/commissions* 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 two-year 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. At least 60 semester hours must 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 such programs, consult the Office of Community College Relations.
7. Credit will not be awarded for GED tests.
8. 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.

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.
3. 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 Community College Relations.

FINANCIAL INFORMATION

UNIVERSITY OF SOUTH FLORIDA - 1993/94 UNDERGRADUATE CATALOG

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's 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 title.
7. Professional/occupational license in Florida.
8. Florida incorporation or other evidence of legal residence in Florida.
9. Full-time, non-temporary employment 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 Regent 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. Registration and Tuition Fee

Students will receive a schedule and fee statement at the time they register and each time they drop or add during the drop/add period. This fee statement must be presented when payment is made.

The student is responsible for paying fees in full by the appropriate due date stated in the particular semester's "Schedule of Classes." Failure to do so will 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 classes. Checks are payable to USF and must be submitted along with the top portion of the final schedule/fee statement.

To avoid a \$50.00 late payment fee, all fees must be paid or postmarked by the fifth day of classes. A student whose registration has been cancelled may request registration reinstatement through the fourth week of classes 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. 1993/94 Fee Structure

Fees are estimated only/subject to change.

Fees are assessed by course level, not student classification.

*Campus/Course Level Resident Non-Resident**

Tampa Campus:

0001-4999 Undergraduate	\$61.86/hr	\$225.27/hr
5000-Over Graduate	\$113.78/hr	\$366.80/hr

Tampa OU and Alt. Calendar Courses:

0001-4999 Undergraduate	\$56.80/hr	\$220.21/hr
5000-Over Graduate	\$108.72/hr	\$361.74/hr

St. Petersburg Campus:

0001-4999 Undergraduate	\$53.65/hr	\$217.06/hr
5000-Over Graduate	\$105.57/hr	\$358.59/hr

St. Petersburg OU and Alt. Calendar Courses:

0001-4999 Undergraduate	\$53.15/hr	\$216.56/hr
5000-Over Graduate	\$105.07/hr	\$358.09/hr

Sarasota Campus/New College:

0001-4999 Undergraduate	\$52.70/hr	\$216.11/hr
5000-Over Graduate	\$104.62/hr	\$357.64/hr

Sarasota: OU and Alt. Calendar Courses:

0001-4999 Undergraduate	\$51.70/hr	\$215.11/hr
5000-Over Graduate	\$103.62/hr	\$356.64/hr

Lakeland Campus and Alt. Calendar Courses:

0001-4999 Undergraduate	\$50.40/hr	\$213.81/hr
5000-Over Graduate	\$102.32/hr	\$355.34/hr

Fort Myers Campus and Alt. Calendar Courses:

0001-4999 Undergraduate	\$51.40/hr	\$214.81/hr
5000-Over Graduate	\$103.32/hr	\$356.34/hr

*See "Resident Status," above

NOTE:

- (1) There is no ceiling (maximum) on the amount which a student may be assessed for a single semester.
- (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." Remainder of Semester Monday through Friday, 9:00 a.m. through 3:00 p.m.
- (5) Registration fee payment should be mailed to:
Division of Finance and Accounting
University of South Florida
4202 Fowler Avenue, ADM 147
Tampa, Florida 33620-5800
- (6) I.D. Card Validation Hours Regular Registration - See regular registration dates and times in "Schedule of Classes" for appropriate semester. Remainder of Semes-

ter Monday through Friday, Cashier's Office, ADM 131, 9:00 a.m. through 3:00 p.m.; Cash Collections, ADM 106, 3:00 p.m. through 5:00 p.m.; Information Desk, University Center, 5:00 p.m. through 12:00 a.m.

b. Estimated Bachelor of Independent Studies Fees

	Resident	Non-Resident
Application Fee	\$20.00	\$20.00
1st Study Area		
Independent Study	834.45	3,214.20
Seminar	834.45	3,214.20
2nd Study Area		
Independent Study	834.45	3,214.20
Seminar	834.45	3,214.20
3rd Study Area		
Independent Study	834.45	3,214.20
Seminar	834.45	3,214.20
4th or Inter-area Study	1,668.90	6,428.40
Total*	\$6,675.60	\$25,713.60

*Fees do not include books, on-campus seminars, housing or food service.

c. PACE Fees

Students enrolling in courses through the School of Continuing Education, PACE, normally pay registration costs through a sponsoring organization. They do not pay tuition fees directly to the University.

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.

e. Florida Public Interest Research Group (FPIRG) Fee

The Florida Public Interest Research Group (FPIRG) is a non-profit, non-partisan research and advocacy organization controlled and funded by Florida's college students. FPIRG conducts independent, policy-oriented research, monitors governmental and corporate actions affecting Florida residents and advocates for reforms that benefit the general public interest. FPIRG also provides students with the opportunity to combine their university education with meaningful public interest work.

The FPIRG fee was established through a petition drive in which a majority of students at the Tampa, New College, and St. Petersburg campuses requested the assessment of a new fee to support such work. This fee of \$3.00 is assessed to all fee-paying students each semester who enroll in Tampa, New College or St. Petersburg courses. However, any student may refuse to pay the fee if that student does not support the work of the organization. To refuse the fee the student should initial the appropriate box on the registration form. Additionally, any student paying the fee can later request a refund from the FPIRG Office (Room 219, Andros Classroom Building) at any time during the course of the semester.

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 Payments

Financial aid checks are available, after registering during the first week of classes, in an area designated by the Division of Finance and Accounting. Checks must be picked up and fees paid by the end of the first week of classes.

5. Cancellation for Non-Payment of Fees

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

6. Intern Certificate of Participation

Students who present Intern Certificates for payment of their registration fees will have to pay an estimated \$4.76 per hour charge for all credit hours taken during the semester. By paying

the estimated \$4.76 per credit hour charge and presenting an Intern Certificate, a student will be allowed to register for an unlimited number of credit hours during a single semester. These students will not be charged a student health fee.

7. Staff/State Employee Waivers

USF and other State agency employees interested in enrolling for free university courses should obtain a State Fee Waiver Form from their respective Personnel Offices and complete it prior to registering. **The fee waiver is offered on a SPACE AVAILABLE BASIS ONLY and up to six credit hours per semester.** State employees using a fee waiver must register during the designated dates for each semester (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 are (but not limited to) L 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, any other non-credit or one-to-one instruction courses.

The completed/approved fee waiver, along with the registration schedule/fee statement, should be brought to the Cashier's Office, ADM 131, during the first week of classes. 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.

8. 60-Day Deferment 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 60-day deferment of fees Veterans Services have until a specified date (see "Schedule of Classes") to pay registration fees in full.

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 \$17.12 per credit hour, including applicable lab fees. This fee must be paid or postmarked by the fifth day of classes to avoid being cancelled or charged the \$50.00 Late Payment Fee.

10. Mailed Payments

To avoid cancellation of registration or a \$50.00 Lay 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 re-deemed 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.**

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 Finance and Accounting to initiate the refund process. A two-week waiting period is observed for each refund in the event a check is returned.

- 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.
- 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 Classes

Effective January, 1989, the University of South Florida 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, 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) 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 in the Administration Building or mailed to Finance and Accounting, USF, Tampa, FL 33620 by the appropriate deadline.

Financial Aid

USF makes every effort to ensure that no qualified student is denied access to an education due to inadequate funds. There are many financial aid programs, administered or coordinated by the Office of Financial Aid, which provide funds to qualified students. Financial aid counselors are available to answer questions, provide information and assist students in the application process.

Financial aid is available in the form of scholarships, grants, part-time employment, and low interest loans. Temporary deferments of registration fees, and short-term, interest free loans for books are available to students whose aid is delayed in delivery.

In addition to providing information and applications for programs directly administered by the University, the Office of Financial Aid maintains a Scholarship Library with information and resource materials about other sources of financial aid. Students may come to the office and use these resources during regular office hours. Financial aid personnel are available to provide assistance.

Students 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 important to apply early. Application packets are available in early December each year, for the upcoming academic year, which begins in August. Complete information about financial aid is provided in the Financial Aid Bulletin which is in the packet. Packets are available by contacting the Office of Financial Aid.

Students whose financial aid is delayed may qualify for temporary deferment of their registration fees. Deferment cards are mailed to qualifying students prior to the start of each semester. Those who qualify late may pick-up a deferment card in the Office of Financial Aid through the fifth day of classes. Cards must be signed and returned no later than the fifth day of classes in order to activate the deferment.

Financial Aid Short Term (FAST) Loans are available for books/

supplies to students who have submitted deferment cards. These loans are available through the fifth day of classes each semester.

Other short term loans, not contingent on financial aid, are available through the Office of Student Financial Services (ADM 172). These loans are for fees as well as emergencies.

When a student experiences a financial hardship that makes it impossible to make full payment of assessed registration and tuition fees by the payment deadline, the student may request approval to pay the fees in installments. Approval of this request will require the payment of at least 50% of the fee liability and the execution of a promissory note for the remaining fee liability by the end of the drop/add period. The remaining fees shall be paid no later than the beginning of the second half of the academic term/semester. Students may request approval to pay fees in installments in the Cashier's Office (ADM 147).

Academic Scholarships

In addition to scholarships offered through the Office of Financial Aid, the University has a number of academic scholarships which recognize excellence. These include, but are not limited to: Black Scholar Awards for entering black freshmen or graduates of Florida community/junior colleges; Freshman Scholar Awards; Alumni Scholarships for new freshmen and undergraduate transfers; Community College Scholarships for graduates of Florida community/junior colleges; Out-of-State Fee Waivers and a number of scholarships available through the individual colleges of the University.

Each year, qualified National Merit finalists are awarded four-year merit scholarships sponsored by the University of South Florida through the National Merit Corporation. All National Merit finalists, who name USF as the institution of their first choice, are guaranteed a National Merit Scholarship.

Information about eligibility requirements, selection criteria and the application process for the various scholarships can be found in the Scholarship Handbook, available from the Office of Financial Aid. A scholarship coordinator is available to answer questions or refer you to the appropriate source.

Vehicle Registration and Fees

Motor Vehicles

Students may use properly registered motor vehicles on any University campus. Parking facilities are provided for resident and commuter students. All motor vehicles, motorcycles, and bicycles used on campus must be registered with the campus Parking Services Department, Division of Public Safety. This applies to full-time or part-time, day or evening students. To register a vehicle a valid staff, student, or employee identification card (which forms the basis for the type of tag to be issued) will be required. **State vehicle registration, indicating owner of vehicle, must be shown to the clerk of the Parking Services Department on request.** A booklet entitled "USF Traffic and Parking Regulations" will be issued to each student upon registering a motor vehicle. Current registration fees are published annually in the USF Traffic and Parking Regulations.

Yearly fees for students registering after the first semester will be adjusted proportionally. Students may park in remote areas for a lesser fee. All annual decals expire on August 31 of the academic year.

Bicycles

There is no fee for registering bicycles. A booklet entitled "USF Bicycle Traffic and Parking Regulations" will be issued to each student registering a bicycle.

Disabled

All staff/students with physical disabilities which impede walking may apply to the Parking Services Department of the local campus for a disabled hangtag. Persons will receive vehicle registration hangtags free of charge if they are wheelchair-bound, legally blind, hold a current State of Florida Disabled Parking Permit, or have military disability of 50% or greater with V.A. certificate or letter. Other disabled registrants will pay the regular fee. Wheel-

chair-bound registrants are entitled to an exclusive disabled parking space. Other disabled registrants shall share spaces marked Disabled.

Evening Students

Vehicle registration requirements and fees apply to evening students as well as day students.

Special Services

Department of Veterans Affairs (VA) Benefits

The University of South Florida 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, undergraduates and non-degree seeking (special) students must enroll for 12 or more semester hours, and degree seeking graduate students must enroll for 9 or more semester hours each normal academic semester.

VA regulations require that students take only courses that are applicable to their degree program or other approved program, attend classes, and make satisfactory progress toward their degree. There are many other VA rules and regulations of which students

should be aware, including those regarding the following: Double Major, Double Degree, Major/Minor programs, the Bachelor of Independent Study Degree program, students not admitted to specific college majors, Cooperative Education program, cross enrollment at two institutions, non-degree seeking (special) student enrollment, courses/programs offered off campus, graduate student enrolled in undergraduate courses, independent study courses, open circuit television courses, courses taken by audit (no benefits), and non-punitive grades ("W" or "U/IU"). *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 counseling, and approval by the VA.

Veterans with a service-connected disability requesting benefits under Chapter 31 must present a VA Authorization form for the effective period of enrollment at USF. Those students may contact the Office of Loans and Scholarships no earlier than the respective semester's regular registration date for a book and supplies voucher and ID card validation. 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 (where the veteran's records are located) directly of enrollment and termination of enrollment.

*See "Resident Status," above

STUDENT SERVICES AND STUDENT AFFAIRS

UNIVERSITY OF SOUTH FLORIDA - 1993/94 UNDERGRADUATE CATALOG

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. University officials, and in particular Office of the Vice President for Student Affairs 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 Vice President for Student Affairs and the Student Affairs staff strive to provide a campus environment that is conducive to learning and that enhances the quality of life for the students at the University. New students and prospective students receive assistance in gaining information about the University before they arrive on campus during the admission process. The Student Affairs staff also offers services to students to help them cope more effectively with the many facets of college life which can affect students' academic work: financial aid, health service, individual and/or group counseling, alcohol/drug education, career planning, bookstore, procedures for redressing grievances, standards for students' conduct, due process in the event of disciplinary action, and advice and/or assistance in time of trouble. A variety of programs and activities are offered by the Student Affairs staff to provide students opportunities to become involved in campus life outside the classroom: orientation for new students, residence halls, student organizations and University Center programs and activities, student government, student publications, intramural and recreational sports, student health education/wellness programs, and events of special interest.

Standards and Discipline

Just as the University maintains high standards of academic performance, the members of the University community support high standards of individual conduct and human relations. Responsibility for one's own conduct and respect for the rights of others are essential conditions for 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 University discipline. The University reserves the right to deny admission or refuse enrollment to students whose actions are contrary to the purposes of the University or impair the welfare or freedom of other members of the University community.

Disciplinary procedures are followed when a student fails to exercise his/her responsibility in an acceptable manner or commits an offense as outlined in the student handbook. The University disciplinary procedures afford students the opportunity 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 University discipline procedures are described in the student handbook.

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 appropriate for the activity in which the individual is engaged.

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 such as S.A.F.E. Team, Computer Services, free legal advice, off-campus housing assistance, Soberride, health and accident insurance, and others. 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 University Center, room 203 or call 974-2401.

Grievance Procedure

In order to assure students the right to redress of grievances, the Office of Student Affairs 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 Affairs, in person or in writing. A course of action or other answer will be given by a member of the staff of the Office of Student Affairs, within the week if possible. For academic grievances, the student should see the college dean in which the cause for the grievance occurred.

Regional Campuses

Student Affairs offices are also maintained at the St. Petersburg, Fort Myers, Sarasota, and Lakeland campuses. For information about the services and programs provided for these students see Academic Programs of USF Regional Campuses.

Student Health Services

The Student Health Service on the Tampa Campus is located adjacent to the University Center Building. The phone number is: 974-2331. The hours are Monday - Friday 8 a.m. to 5:30 p.m. when classes are in session. The services offered by Student Health Service to the students are:

Walk-In Clinic	Dermatology Clinic	Referrals
Medical Clinic	Clinical Laboratory	Gynecology Clinic
Antigen Clinic	Immunization Clinic	
Health Education	Physical Examination Clinic	

Appointments are not needed in most cases; care is handled on a walk-in basis. A current validated student ID card is required. All records at the Student Health Services are kept strictly confidential.

The Student Health Service maintains a day infirmary only. There are no dental services available on campus. The Health Service does not have x-ray facilities but will assist students in scheduling x-rays at a nearby x-ray facility at student's expense.

The Health Educator offers special programming, informational bulletins and pamphlets as well as group and individual sessions on health related topics. Call 974-4936.

Psychiatric counseling is funded by the Health Service and available at the Counseling Center for Human Development located in SVC 2124. Their phone number is: 974-2831.

The cost of most routine medical care is covered by the health fee. Additional charges for the specialty clinics, prescribed medications, laboratory tests, and other types of services are the student's responsibility. A schedule of charges is available for review. A Student Health and Accident Insurance Policy is negotiated by Student Government and is available for a nominal fee. All registered students receive insurance information by mail. Students may also pick up information on insurance and an application form from the Student Government Office, CTR 203. It is strongly recommended that all students be covered by health insurance.

SUS Immunization Requirement

As of Fall Semester, 1986, as a prerequisite to registration, the State University System requires all students UNDER THE AGE OF 40 to present documented proof of IMMUNITY against RUBELLA (German Measles). In addition, those students born after 1956 are required to present documented proof of IMMUNITY against MEASLES (Rubeola). According to the Florida Department of Health and Rehabilitative Services, acceptable proof of immunity is as follows:

MEASLES: Students are considered immune to Measles (Rubeola) only if they have documentation as follows:

1. Medical documentation (evidence) of TWO (2) DOSES received at least 30 days apart of live Measles (Rubeola) vaccine received at 12 months of age or older and administered in 1968 or later or,
2. Copy of laboratory serologic proof of Rubeola immune status (Rubeola Titer) or,
3. A written statement by a physician on his stationery which specifies the date seen and states that the person has had an illness characterized by a generalized rash lasting three (3) or more days, a fever of 101 degrees Fahrenheit or greater, a cough, AND conjunctivitis, and, in the physician's opinion, is diagnosed to have had the 10 day measles (Rubeola).

RUBELLA: As of Fall, 1990, students can be considered immune to Rubella only if they have documentation as follows:

1. Medical documentation (evidence) of the live Rubella (German Measles) vaccination received at 12 months of age or older and administered in 1969 or later or,
2. Copy of laboratory serologic proof of Rubella immune status (Rubella Titer).

PLEASE NOTE: ALL FEMALES SHOULD BE AWARE THAT THEY SHOULD NOT BE VACCINATED IF THERE IS ANY POSSIBILITY OF PREGNANCY.

- Temporary Medical exemptions must be submitted by the attending physician and must include reason for exemption and duration of exemption.

- For religious exemptions contact, Troy Collier 974-2151.

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

- VACCINATIONS AND BLOOD TITERS AVAILABLE AT STUDENT HEALTH SERVICES.

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

International Student Services

The University welcomes qualified students from other countries to the campus community. This international exchange lends 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.

The International Student Center, located in the University Center, meets the special needs of international students, and assists each student in achieving his/her educational objectives. The staff is available to counsel students on immigration as well as the financial, social, personal, and academic aspects of student life. As a means of orienting international students to American family life, an active American Family Program is maintained. An informal English Conversation Program is available for international students, the spouse, children, and other family members or friends. Also, in cooperation with the Intercultural Organization, varied programs are provided to enable the total student body to participate more fully in the international dimension of the University.

All non-immigrant degree-seeking international students on all USF campuses, including New College, must demonstrate that they have adequate health insurance coverage for illness and injuries in the U.S.

Services for Students with Disabilities

USF has facilities for persons with disabilities and encourages their enrollment in the University. Due to the mild climate, relatively flat terrain, modern architecture, and recent modifications, many persons with significant disabilities have been able to function independently and successfully in the University environment. (See page 9 for further information.)

All academic programs, campus organizations and activities are open to students who are disabled. The University attempts to integrate students who are disabled into the University as completely as possible.

The Office of Academic Services for Students with Disabilities provides assistance to eligible university students to allow full participation in all academic courses and activities. Services such as readers and notetakers and adaptive equipment are provided through this office. Students are encouraged to contact the office prior to registering for classes to make arrangements for the planning of services.

Residence Hall Living

The residence hall program at USF is an integral part of the total educational experience offered to USF students. Within this residential environment, students become closely involved with the University community through ongoing opportunities for intellectual, social, recreational, emotional, and vocational growth. Students from all over the U.S. and the world establish friendships and share in cultural exchange as they become neighbors in the residence halls. In addition, professional staff members, who help foster academic and personal adjustment, are available to students living in the halls.

Whether considering the low-cost housing, the convenient location, the availability of resources, or the student-oriented personnel associated with the residence hall program at USF, campus living has a lot to offer! Every degree-seeking student is eligible to apply for housing; however, on-campus space is limited. Therefore, a student desiring to live in the residence halls is encouraged to apply for housing immediately upon receiving his/her official acceptance letter from USF. If you are a Florida Prepaid College Program participant with a Prepaid Dormitory Contract, it is a good idea to make note of this and the Prepaid Dormitory Contract number on your Application for Housing Contract.

On-Campus Housing Facilities

Residence Halls at USF, Tampa, 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 different options in campus living.

The *Argos Complex* offers traditional student residential living. Gamma houses women and Beta houses men. The traditional living arrangement in these halls provides double occupancy room accommodations designed for both sleeping and studying. The 40-50 residents occupying a living unit share common bath facilities which are cleaned on a regular basis by the hall's housekeeping staff. Each hall also offers a central lounge area, laundry facilities, and snack machines.

The *Andros Complex* consists of nine smaller halls with suite arrangements. Delta, Epsilon, Kappa, and Mu (West Wing) house women while Iota, Mu (East Wing), Theta, Eta, and Zeta house men. Lambda Hall houses both men and women and is available exclusively to those students who have been accepted into the University Honors Program. Mu Hall is designated as an International House. The suites in Delta, Iota, Kappa, Lambda, and Mu are double occupancy designed to accommodate eight residents: two sharing a bedroom, four sharing a study area, and eight sharing bath facilities. The suites in Epsilon, Eta, Zeta, and Theta are single occupancy accommodating four residents: one per bedroom and four sharing bath facilities. The housekeeping staff cleans study areas and bath facilities on a regular basis. The five suites on each living unit also share a small kitchenette/lounge and laundry facility.

All residence halls in ARGOS and ANDROS are air-conditioned. Most rooms are carpeted, and all rooms are furnished with a bed, desk, chair, dresser, closet, and bookshelf for each resident. All rooms provide for telephone and cable TV access. Food service facilities are conveniently located in each complex. Nearby swimming pools as well as basketball, tennis, and racquetball courts await students seeking leisure-time recreation. In addition, students have the opportunity to become involved in planning activities for their hall by joining residence hall organizations.

The *Village Complex* consists of 30 individual one story buildings, each containing 10 double occupancy efficiency apartments. These facilities are reserved for students who have attained junior, senior, or graduate class standing. 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 individual apartment heating and air-conditioning units are also provided. Within the Village Complex, the residents have access to a swimming pool, convenience store, laundromat, and a wooded picnic/barbecue area.

For more information, contact the Residence Hall Assignment Office at 813-974-4310. The Residence Hall Assignment Office is open Monday through Friday from 9:00 a.m. to Noon and 1:00 p.m. to 5:00 p.m.

Off-Campus Housing

The Off Campus Housing Office, located in the University 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.

Food Service

University Food Service operates a variety of facilities to meet the needs of all students, whether they live on- or off-campus. Services provided to the USF community include: cafeterias, convenience stores, snack bars, and vending throughout the campus.

A food service contract with two meal-plan options is available to any degree-seeking student at USF.

- * Seven-day, Monday through Sunday noon (20 meals)
- * Seven-day, Monday through Sunday noon (10 meals)

Although the 10 meal plan is a good option for students who leave campus on the weekends or don't eat 3 meals per day on campus, the 20 meal plan is the most economical. Even if several meals are missed, the average price per meal will still be less than eating off-campus, especially considering students can receive unlimited seconds.

Two cafeterias, located in the Andros and Argos Complexes, serve students who participate in the contract meal plan. Students may eat in either cafeteria. Except for a brief closing from 3:30 p.m. - 4:00 p.m. daily, at least one cafeteria is open between the hours of 7am and 7pm Monday through Friday in order to maintain continuous service. Weekend hours are slightly reduced, and the Sunday evening meal is not served.

Special dinners and events are planned every semester to add variety, such as "build your own" sundaes, pasta and stir-fry bars, ethnic and theme dinners, picnics, and barbecues. A registered dietician designs the cafeteria menus for great taste and nutrition. In addition, the dietician is available if individual nutrition counseling is desired.

The contract meal plan is *binding for both Fall and Spring Semesters* and is nontransferable. This two-semester contract makes it possible to guarantee your price against inflation which occurs during the contract period. Meals are served only while classes are in session; meal contracts are not in effect over holiday breaks.

For your convenience, the contract meal plan can be purchased with MasterCard or Visa. Cash is accepted at all food service operations on campus for those students who prefer to buy individual meals (or wish to bring a guest). However, students find that a contract meal plan definitely saves money on the average cost per meal. In addition, the meal plan offers convenience and saves time when you're a student with a busy academic schedule.

Additional information about food service on campus is available through either the Residence Hall Assignment Office (813/974-4310) or the Residential Dining Service Office (813/974-3194).

University Center

The University Center U.C., more so than any other campus facility, serves as a focal point of daily activity for students, faculty, administration, 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 U.C. seeks to add another dimension to the educational experience by providing an environment for informal association outside the classroom. The U.C. was designed with the extracurricular life of the student in mind, to provide a sense of central place and identity for the USF 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 U.C. 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.

The U.C. 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, recorded campus tours, Tampa area bus schedules, official USF lost and found, graduation announcements sales, and current events information. Other services located on the first level include a computer lab, student organization mailboxes, Credit Union, an automatic teller machines, travel service, copy service and Centre Gallery, a student directed art exhibition space.

The U.C.'s conference and meeting facilities are available through the Reservations office. Most meeting rooms hold up to 50 people, with some holding up to 75 people. The 1956 Ballroom (CTR 294) holds up to 300 people. Large rooms are perfect for dinners, social functions and large conferences.

Food service areas in the U.C. include Center Dining, first level cafeteria, and Rocky's Empty Keg on the lower level. Sweet Sensations offers fresh-baked cookies, cakes, pastries and more, along with gourmet coffees, frozen yogurt, and assorted gift items. Catering for events held in the U.C. is available through University Center Food Services for those wishing to hold a luncheon, reception or formal dinner. Arrangements for catering services can be made at the U. C. Reservations Office.

The U.C. lower level houses Rocky's Empty Keg, The Bull Pen games and arcade area, Centre Studios, Bike Shop, TV room, vending machines, and photo lab. The Bull Pen area has billiard tables, video and pinball games, foosball, table tennis, chess, checkers, and card tables. Centre Studios is available to anyone 16 years of age or older. Instruction is provided in leather making, batik, basketry, stained glass, copper enameling, ceramics, and print making. Structured classes are offered each semester. The Bike Shop, located on the lower level west end, is operated by the USF Bicycle Club and provides bicycle repair, supplies, parts and accessories, as well as a bicycle repair area for members.

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 1950-seat center 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 University Center by a Skyway over Cedar Drive.

Student Organizations

The Office of Student Organizations and Leadership Development on the second level of the University Center provides counseling 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 more than 270 student organizations. Professional advising to fraternities, sororities, minority organizations, and leadership development training are coordinated through this office. Traditional USF activities such as Honors Week, Greek Week, and Student Organizations Showcase are directed through this office. The Student Organization Advisory Board (SOAB), an all-student committee, is made up of students represent-

ing the various organizations. The SOAB is 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, the 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 for 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 Organizations and Leadership Development.

Dance, Music, and Drama Clubs

The excellent programs in the College of Fine Arts offer many opportunities for involvement of students, both those who major in this area and those majoring in other areas of the University. A number of activities and organizations are sponsored by the Fine Arts College's departments of Art, Dance, Music, and Theatre. Productions produced by the Theatre Department are open for participation by students both on stage and in support areas. The Music Department welcomes student participation in its instrumental and choral organizations. Dance productions are also available for participation by all qualified students. Contact the departmental office of the activity of interest for information about procedures for participation.

Cultural Events

Each year a variety of outstanding visual and performing artists are brought to USF campus. These visiting artists provide unusual opportunities for experiencing the finest professional talents in Dance, Music and Theatre. A quality Exhibitions Program provides many varied and significant works of art presented annually in the University's new Art Museum, the Teaching Gallery in the Fine Arts building, and in the lobbies of Theatres I and II. In addition, the College of Fine Arts arranges a full schedule of concerts, plays, lectures, films, and workshops which feature students, faculty, and visiting artists. These and other programs conducted by the College of Fine Arts significantly contribute to the education of students and the general vitality of the campus.

These events, most of which are open to the general public, are presented both during the day and evening. Special ticket privileges are available to USF students for most events. For information concerning these events contact the Box Office.

Councils

Various councils exist on the Tampa campus. Several of these councils unite organizations or people with similar purpose. Others represent specific colleges at USF and coordinate academic, honor, and professional organizations within their colleges. Councils present on campus are: Argos Programming Council, Arts and Letters Honors Council, Arts and Sciences Student Council, Black Student Union, College of Education Student Council, College of Medicine Student Council, College of Nursing Student Council, Cooperative Education Advisory Council, Council of Honor Societies, Honors Program Student Council, Interfraternity Council, Panhellenic Council, Public Health Student Association, South African Student Union, Student Fine Arts Council, Student Government, Student Government Productions, Student Government Senate, Student Organizations Advisory Board, University Center Advisory Board, and Village Hall Council.

Greek

There are currently 20 national fraternities and 11 national sororities on the Tampa campus. These organizations provide a variety of social, educational, service, and recreational programs for their members. Support for these programs is coordinated through the Interfraternity Council, Panhellenic Council, and Black Panhellenic 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 Panhellenic rush varies among each chapter. Panhellenic holds formal Rush the week prior to Fall Semester.

The sororities are 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 Zeta Phi Beta.

The fraternities are Alpha Epsilon Pi, Alpha Phi Alpha, Alpha Tau Omega, Beta Theta Pi, Chi Phi, Kappa Alpha Psi, Kappa Sigma, Lambda Chi Alpha, Phi Beta Sigma, Phi Delta Theta, Pi Kappa Alpha, Pi Kappa Phi, Omega Psi Phi, Sigma Alpha Epsilon, Sigma Alpha Mu, Sigma Chi, 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 are: Alpha Epsilon Delta, Alpha Phi Sigma, Alpha Pi Mu, Beta Alpha Psi, Chi Epsilon, Eta Sigma Pi, Gamma Theta Upsilon, Golden Key, Kappa Delta Pi, Kappa Tau Alpha, Mortar Board, Omicron Delta Kappa, Order of Omega, Phi Kappa Phi, Psi Chi, Sigma Alpha Iota, Tau Beta Pi, and Themis Honor Society.

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 are: Association of Filipino Students, Caribbean Cultural Exchange, Chinese Student Union, Circulo Culturale Italiano, Club Creole, French Club, Friendship Association of Chinese Students and Scholars, German Club, Intercultural Organization, International Studies Student Association, Latin American Student Association, Students of India Association, Students of The Thai International Club, Pakistan Student Association, Turkish Students Association, United Muslim Students, and Vietnamese Student Association.

Political

Organizations for political and social change are: College Republicans, and Young Democrats.

Professional

The professional societies at USF focus their groups on professional oriented needs and interests of students. They are: Advertising Club, American College of Health Care Executives, American Institute of Aeronautics and Astronautics, American Institute of Chemical Engineers, American Society of Mechanical Engineers, Arnold Air Society, Delta Sigma Pi, Florida Engineering Society, Human Factors Society, Institute of Electrical and Electronics Engineers, Mathematics Education Club, Phi Beta Lambda, Pi Sigma Epsilon, Pre-Dental Society, Pre-Law Society, Pre-Veterinary Society, Public Relations Student Society of America, Rotaract, and Writer's Guild.

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 are: American Criminal Justice Association, Association of Computing Machinery, Association of Marketing

Students, Graduate Business Association, Minority Organization of Students in Education, and Student Finance 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 are: Baptist Campus Ministry, Baptist Student Union, Catholic Center, Christian Science, Episcopal University Center, and University Chapel Fellowship. In addition to the Campus Ministries, there are diverse student religious organizations on campus. The religious organizations are: Baha'i Club, Campus Advance for Christ, Campus Bible Fellowship, Christian Life Community, Friends of Israel Gospel Ministry, and United Muslim Students.

Service/Resource

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.

Service and resource organizations are: Ambassadors, Amnesty International, BACCHUS, Circle K International, Everywoman's Center, Florida Public Interest Research Group, Infoquest Services, Paraprofessional Counseling Service, and SG Insurance.

Special Interest

Special-interest organizations cover a wide range of diverse activities. Those of the Tampa campus include: Adventurer's Guild, Anthropology Club, Classics Society, Gay/Lesbian Coalition, Geography Club, Gospel Choir, Model United Nations, Radio and Electronics Club, Readers Theatre Guild, Society for Creative Anachronism, Student Council for Exceptional Children, Student Dance Production Board, Student Theatre Productions, Students Over Traditional Age, WBUL Radio Station, and Women's Studies.

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, Barbender's Club, Bicycle Club, Bicycle Racing Club, Bowling Club, Chito Ryu Karate, Go Club, Sailing Club, Scuba Club, Skydiving Club, Sports Officials Association, Tae Kwon Do Karate Club, Wado Kai Karate, and Water Ski Club.

University Bookstores

The bookstores are owned and operated by USF and are a self-supporting auxiliary. The primary function is to extend services to the students, faculty, and staff of the university as well as alumni and visitors. The University Bookstore and Office Stores are the major stores on the Tampa Campus. A Medical Bookstore (MDC 1021) is located in the USF Medical Center Complex and the St. Petersburg Campus Bookstore (Coquina HALL 101) services the Bayboro Campus.

University Bookstore (BRO 097)

The University Bookstore is located off West Holly Drive, just west of the USF Water Tower. This facility offers a wide variety of merchandise for the USF community. All course-required supplies including textbooks are stocked for students in all colleges; and a complete supply of writing instruments, paper, binders, and folders is available. Special discounts are available on calculators and personal computers. In addition to these supplies, this store also offers the most recent fashions in collegiate clothing, college jewelry, imprinted souvenirs, gifts, cards, stationery, and novelty items.

The Textbook Department offers new and used textbooks, study guides and workbooks, and some reference books. This department also provides personnel to assist in ordering course textbooks. A continuous buyback program offers a source for the selling of used textbooks by students and faculty.

The Bookstore also features a general book department featuring study aids, technical and professional books, and the latest

paperbacks. Hardback best sellers are offered at a special discount. The latest "Books in Print Catalogue" is available for special orders. Sale and gift books are also obtainable during most times of the year.

The University Bookstore is open from 9:00 a.m. to 5:55 p.m. Monday through Thursday; 9:00 a.m. to 4:55 p.m. on Friday. During the beginning of each term, the store has extended hours of operation. Ample parking is available. Visa/MasterCard accepted.

Office Stores (BRO 097)

Office Stores, located to the north of the University Bookstore parking lot, is the department that provides office supply items to campus offices and student organizations. Purchases by campus departments with account numbers are made by completing a Uniform Charge Document form signed by the accountable officer. These charges are billed monthly through the central billing system. A delivery service to campus offices is available. Special items not currently in stock may be ordered through office supplies catalogues.

Medical Bookstore

Located in the Medical Center (MDC 1021), the Medical Bookstore offers medical textbooks, instruments, supplies, and reference books. General goods such as notebooks, school supplies, clothing, greeting cards, and candy are also provided. The Medical Bookstore is open 9:00 a.m.-5:00 p.m. Monday-Friday. Visa/MasterCard accepted.

St. Petersburg Campus Bookstore

The St. Petersburg Campus Bookstore (Coquina Hall 101) offers textbooks for St. Petersburg classes, general books, clothing, school supplies and a variety of general merchandise items. This bookstore is open 9:00 a.m.-6:00 p.m. Monday-Thursday and 9:00 a.m.-5:00 p.m. on Friday with extended hours at the beginning of each term. Visa/MasterCard accepted.

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 through its four components.

1. **Intramural Sports** - Intramural competition is scheduled in 22 different sports, with considerable interest in participation by residence hall teams, campus organizations and independent students. The following intramural sports are scheduled:

Semester I - Flag Football, Golf, Co-ed Softball, Racquetball, Field Goal Kicking, Track Meet, Sports Trivia Bowl, Softball, Ultimate Frisbee, Intramural 5K Run, Golf Long Driving Contest, Home Run Derby

Semester II - Soccer, Volleyball, Bowling, Swim Meet, Tennis, 3 on 3 Basketball, Basketball, Slam Dunk Contest, Wrestling, Basketball 3-Pt. Shootout

2. **Outdoor Recreation** - The Outdoor Recreation division offers opportunities for students to become involved in outdoor trips, lectures, and workshops, i.e., snow skiing, sailing, canoeing, camping. Students can become involved as participants, group leaders, workshop administrators, or may simply rent any of the large inventory of outdoor recreation equipment.

3. **Sports Clubs** - The sports club program offers participation opportunities for students with a special interest in twenty different sports, from aikido to weight lifting.

4. **Informal Recreation** - Recreation facilities—swimming pools, gymnasium, tennis and racquetball courts, playing fields, and the USF Riverfront Park—are available for student and staff use during free time, as well as recreation equipment, which may be checked out at the Gym with a validated student I.D. card.

A yearly Campus Recreation Handbook is published which details the programs and facilities available, and a schedule for recreation hours is available each semester.

Intercollegiate Athletics

USF fields 14 intercollegiate sports for men and women, all at the NCAA Division I level. In men's competition, USF has baseball, basketball, soccer, cross country, track, golf and tennis. On the women's side are basketball, softball, tennis, golf, cross country, track and volleyball.

The school became a member of the Metro Conference in 1991 and has been a dominant force in the league. USF won the Men's and Women's Commissioners Cup, symbolic of overall sport supremacy within the Conference.

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.

Student Publications

The University has encouraged a program of campus communication 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 16 to 20 pages in each issue, it provides professional experience for those students interested in print journalism.

Omnibus, a literary magazine, published every semester, contains prose, poetry, photos, and graphics produced by students.

Interested students are invited to apply for staff positions on both publications.

Counseling Center for Human Development

The Counseling Center for Human Development provides direct professional services to USF students in career counseling, personal counseling, psychiatric consultation, and reading/study skills. Special services are provided by the State Division of Vocational Rehabilitation and that agency maintains an office in the Counseling Center. Counseling Center services are designed to assist students in achieving efficient learning habits and in developing a satisfying participation in campus life.

The Career Counseling Service helps students to develop realistic career goals through testing, counseling, use of career information, and through the exploration of alternative educational and/or career goals and methods for reaching them. Emphasis is placed on developing skills for solving educational and career problems in order to make constructive career decisions. Computerized career information and guidance systems (CHOICES, SIGI-Plus) and a comprehensive Career Information Library are available for student use.

The Personal Counseling Service is a student resource that provides a range of services aimed at the early detection and prevention of student mental health problems and the development of skill-enhancing programs. The following direct services are offered to USF students: Intake evaluation, psychiatric consultation, time-limited psychotherapy and behavior therapy, group therapy, skill-enhancing programs and workshops, anxiety management, paraprofessional programs, and referral services. Professional psychologists also assist students in career guidance, particularly those who

may present identity, motivational, and other related personal problems. The Psychiatric Service assists students when psychiatric evaluation, medication, or hospitalization are needed.

The College R.E.A.D.ing Program helps students to develop their reading, vocabulary, and study skills in order to achieve academic success. Several courses and services are available to all students. Two credit courses are offered each semester: Advanced Reading (ENG REA 1105) and Learning Strategies Within Academic Disciplines (ENG REA 1605). Following an individualized program, students enrolled in these courses reinforce skills taught within the classroom in the Reading Laboratory, a center equipped with individualized materials and software for IBM computers. Additionally, the reading staff offers a variety of study skills workshops on topics such as time management, reading textbooks, test-taking skills, and concentration and memory. Finally, individual assistance is available for those who wish to meet individually to receive guidance relative to specific reading and learning strategy enhancement.

The Counseling Center Outreach Program offers workshops and structured groups in a variety of career and personal growth areas which are of concern to University students. Although most of these programs are regularly scheduled, they may be organized at the request of student or staff organizations. Outreach is also instrumental in informing students of services available to them and in helping them make their college years more fulfilling. A newsletter is distributed monthly and articles are often published in the *Oracle*, the campus newspaper.

A Paraprofessional Counseling Service at the Counseling Center offers several programs to USF students. These programs are staffed by volunteer students under the leadership of trained and experienced graduate and undergraduate students. Participants receive training and supervision from the professional staff.

Application for any of these services may be made by all USF students by calling or presenting themselves at the Counseling Center and requesting assistance.

Veterans Services

Veterans Services are provided at each campus of USF. Veteran advisors work closely with the staff of the Department of Veterans Affairs (VA) in St. Petersburg to provide special services to all eligible veterans, dependents, active-duty service personnel, and members of the Selective Reserve. The Veterans Services staff actively encourages persons who have a desire to start, continue or resume higher education course work to visit Veterans Services. Applications for veterans benefits are completed in Veterans Services, processed through the Certifications Section of the USF Office of the Registrar, and sent directly to the VA.

Services are available to help solve financial problems experienced by veteran students as follows: registration and tuition fee deferment, advance payment, and part-time work opportunities through the VA Work-Study program. The VA Tutorial Program allows eligible VA students to be reimbursed for tutorial costs, not to exceed a maximum set by the VA. Developmental coursework can be accomplished through cooperative efforts with local community colleges. Guidance and referral services are provided with student financial assistance, job placement, student housing, personal and family counseling, career planning, academic advising, and military service school credit.

USF is a Servicemembers Opportunity College (SOC) and encourages active duty personnel to attend the University. For more information on degree completion and tuition assistance, in-service students should first check with their installations' education officer.

ACADEMIC POLICIES AND PROCEDURES

UNIVERSITY OF SOUTH FLORIDA - 1993/94 UNDERGRADUATE CATALOG

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 Dean of Undergraduate Studies. 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 FOR SUMMER TERM

Sessions "A" & "B" (6 weeks)

For: Academic purposes

For: Financial aid

6 hours or more each session

Students must enroll for 12 hours (undergraduate) in a combination of Sessions "A," "B" and "C."

Session "C" (10 weeks)

For: Academic purposes

For: Financial aid

9 hours or more

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 toward a specific degree and will assign equivalent courses (see Evaluation of Transfer of Credit under Admissions and Related Matters).

Former Student Returning

The Office of Admissions will evaluate the acceptability of transfer of credits taken at regionally-accredited institutions since last enrolled at USF. The college of the student's major will determine which courses are applicable for his/her major. In some instances, exact course equivalents will also be determined by other colleges which offer the same or similar course(s) as a part of their programs of study.

Continuously Enrolled Degree-Seeking Student

The Office of Admissions will determine the acceptability of transfer credits taken at regionally-accredited institutions while enrolled at USF as a continuing, degree-seeking student. However, PRIOR WRITTEN APPROVAL MUST BE OBTAINED from the college of the student's major if these credits are to be applicable to the USF degree program. A properly-executed Transient Student Form or Cross Enrollment Form should be used for this purpose.

Registration for Admitted Degree-Seeking Students

Continuing degree-seeking students register by appointment for their next semester's courses during the preceding term, either in person or by telephone. Appointment times and instructions for all registration periods are published in the **Schedule of Classes** for the appropriate semester.

Prior to initial registration, all newly admitted undergraduate students and readmitted former undergraduate students returning are *required* to participate in an orientation/academic advising program on the USF campus where they will take all or the majority of courses. Newly admitted students and readmitted 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 term'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: Prior to registration for classes which meet on campus, *all* students who will be less than 40 years of age at the beginning of the term 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 of 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, in Undergraduate Studies. 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 the 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 Undergraduate Studies for academic 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 advising office in Undergraduate Studies. 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 advising office in Undergraduate Studies 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 all 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 having extenuating circumstances beyond their control and who are unable to attend the first class meeting must notify the instructor or the department prior to the first class meeting to request waiver of the first class attendance requirement. Students who add courses or late-register during the first week of classes will **not** be on the first class roll and, therefore, will not be dropped for non-attendance by the instructor. **To avoid fee liability and academic penalty, the student is responsible for insuring that he/she has dropped or been dropped from all undesired courses by the end of the 5th day of classes.**

This policy is not applicable to courses in the following categories: Bachelor of Independent Studies (BIS), Programs for Adult Credit Education Program (PACE), Open University (TV), FEEDS Program, Off-Campus Term (OCT), Cooperative Education Training, and courses that do not have regularly scheduled meeting days/times (such as, directed reading, or study, individual research, thesis, dissertation, internship, practicums, etc.). **Students are responsible for dropping undesired courses in these categories by the 5th day of classes to avoid fee liability and academic penalty.**

Adds

After a student has completed his/her registration on the date assigned, he/she may add courses until the add deadline specified in the Academic calendar. See the appropriate semester's University **Schedule of Classes** for detailed instructions and dates.

Drops

A student may drop a course(s) during the drop/add period (first five days of classes). No entry of the course(s) will appear on any permanent academic records and full refund of fees is due for course(s) dropped within that period.

Effective Fall, 1986 a student may also drop a course(s) between the second and ninth week of the semester (except for Summer

Sessions see Class Schedule for dates), with the following limitations: From 0-59 cumulative semester hours (classification "1" and "2") the student is limited to three drops; from 60 cumulative semester hours (classification "3" and "4") to end of the undergraduate degree a student is limited to three drops. Students classified as "5" are limited to three drops. Non-degree seeking students (special students) are treated as lower-level undergraduate students and are limited to only three drops while they are classified as either non-degree or degree-seeking lower-level students. [Regardless of student classification, courses at the 5000 level or above are not counted as part of this drop limitation policy.] Additional drops above these numbers will result in an automatic "F" ("U") grade. Registration fees must be paid for all course(s) after the first week, and the academic record will reflect a "W" grade for the dropped course(s) that are within the limitations of this policy. Courses dropped after the nine week deadline (see Academic Calendar for date) will result in an automatic "F" grade.

Appeals for additional drops will be made to the Academic Regulations Committee representative in the appropriate college or Undergraduate Studies. Further appeal is to the Academic Regulations Committee.

Total withdrawals from the University are not counted as part of the drop limitation policy.

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 Finance & Accounting.

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

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. Include in the request the full name, social security number, and date of birth, and indicate name(s) and address(es) to whom the transcript(s) is(are) to be sent. If grades for the current term are needed, clearly indicate that the transcript request is to be held for grades.

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 receive an Associate of 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 the awarding of the Associate of Arts degree and for the Bachelor's 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 must 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 by the time a student has reached 70 semester hours, the student may not register for classes until he/she has scheduled to take a remedial course or workshop covering the content of the failed subtest and has registered for CLAST. A student is required to participate in remediation for only one failed subtest per term. Classes will be withdrawn for failure to attend the scheduled remediation.

If the student has completed 96 semester hours and has not passed all four subtests, he/she will be allowed to register only for preparatory courses until he/she has successfully completed CLAST.

Courses to Satisfy Rule 6A-10.30 ("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 semester-length course within the general study area of the 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-10.30, students must receive a grade of "C" or higher in each course (no "S" grades).

In order to follow the specifics of 6A-10.30, 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)

COLLEGE (Department)

Course Prefix, Number, and Title	Semester Hours
ARTS & SCIENCES	
(Africana Studies)	
AFA 2001 Introduction to the Black Experience	3
(American Studies)	
AMS 3001 America at the Turn of the Century	4
AMS 3370 Southern Women: Myth and Reality	3
(Anthropology)	
ANT 4153 North American Archaeology	3
ANT 4172 Historical Archaeology	3
ANT 4226 Anthropology of Art	3
ANT 4231 Folklore	3

ANT 4241 Magic and Religion	3
ANT 4324 Mexico and Central America	3
ANT 4340 The Caribbean	3
ANT 4432 The Individual and Culture	3
ANT 4620 Language and Culture	3
ANT 4750 Language and Social Interaction	3
ANT 4935 Rethinking Anthropology	3
(Classics)	
CLA 4103 Greek Civilization	3
CLA 4123 Roman Civilization	3
CLT 3101 Greek Literature in Translation	3
CLT 3102 Roman Literature in Translation	3
(English)	
CRW 2100 Narration and Description	3
CRW 3111 Form and Technique of Fiction	3
CRW 3112 Fiction I	3
CRW 3121 Fiction II	3
ENC 1101 Freshman English	3
ENC 1102 Freshman English	3
(Appropriate AP credit applicable)	
ENC 3210 Technical Writing	3
ENC 3213 Professional Writing	3
ENC 3310 Expository Writing	3
LIT 2010 Introduction to Fiction	3
LIT 2030 Introduction to Poetry	3
LIT 2040 Introduction to Drama	3
LIT 3000 Introduction to Literature	3
LIT 3101 Literature of Western World - Ren.	3
LIT 3102 Literature of Western World - Since Ren.	3
(History)	
AMH 3510 U.S. Diplomatic History to 1898	3
AMH 3511 U.S. Diplomatic History in the 20th Century	3
HIS 3474 Science and Civilization	4
POS 4413 The American Presidency	3
(Humanities)	
HUM 4931 Seminar in Humanities	4
(Languages)	
LIN 3801 Language and Meaning	3
RUS 3500 Russian Civilization	3
RUT 3110 Russian Classics in Translation	3
RUT 3111 20th Century Russian Literature in Translation	3
(Philosophy)	
PHH 3000 Introduction to Philosophy	3
PHH 4600 Contemporary Philosophy	3
PHH 4700 American Philosophy	3
PHI 3700 Philosophy of Religion	3
PHI 4300 Theory of Knowledge	3
PHI 4320 Philosophy of Mind	3
PHI 4800 Aesthetics	3
PHM 3100 Social Philosophy	3
PHM 4322 Ancient & Medieval Political Philosophy	3
PHM 4331 Modern Political Philosophy	3
PHM 4340 Contemporary Political Philosophy	3
PHP 3786 Existentialism	3
PHP 4000 Plato	3
PHP 4010 Aristotle	3
PHP 4740 Rationalism	3
PHP 4745 Empiricism	3
PHP 4784 Analytical Philosophy	3
PHP 4788 Philosophy of Marxism	3
(Religion)	
REL 2300 Introduction to World Religions	3
REL 3145 Women and Religion	3
REL 3170 Religion, Ethics & Society	3
REL 3600 Introduction to Judaism	3
REL 3602 Classics of Judaism	3
REL 4171 Contemporary Christian Ethics	3
REL 4670 Judaism and Christianity After Holocaust	4
(Women's Studies)	
WST 3210 Women in Western Civilization I	3
EDUCATION	
(Psychological & Social Foundations)	
IDS 3115 Values and Choice	3

ENGINEERING		
(Computer Science and Engineering)		
CIS	4250 Ethical Issues and Professional Conduct	4
FINE ARTS		
(Art)		
ARH	4796 Critical Studies in Art History	4
ART	3001 Introduction to Art (excluding OU sections)	4
FIL	3001 Film: The Language of Vision	4
(Dance)		
DAN	2100 Introduction to Dance	3
DAN	4111 Survey History of Dance	3
(Music)		
MUL	2111 Introduction to Music Literature	3
(Theatre)		
THE	3090C Modern Theatre Practice	4

All the above courses will require 6,000 written words per course. IDH courses will fulfill the writing requirement for all University Honor students only.

Computation (6 semester hours)

At least 6 hours must be at the level of college algebra or above, with at least 3 hours from the Mathematics Department. Any course offered by the Mathematics Department may be used. Three hours may be taken from outside the Mathematics Department but must be taken from the following list of courses.

Course Number and Title	Semester Hours
CGS 3060 Introduction to Computers and Programming in Basic	3
PHI 2100 Introduction to Formal Logic	3
QMB 2150 Business and Economics Statistics I	3
STA 3023 Introduction to Statistics	4
STA 3122 Social Sciences Statistics	3

CGS 2000 Computers in Business I (3 semester hours) may also count toward fulfilling the computation requirement but will not count toward Area III of General Distribution Requirements.

CLEP general/subject examinations in mathematics, calculus, college algebra, college algebra-trigonometry, and trigonometry may satisfy only three semester hours of mathematics required (college algebra or above).

CLEP general examinations in mathematics or the above mentioned subject examinations and high school transcripts indicating a grade of "C" or above in higher mathematics coursework (college algebra, trigonometry, and calculus) may satisfy all six semester hours of the mathematics requirement.

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-evaluate his/her educational goals with an academic advisor 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
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
R	Repeated course
S	Satisfactory
T	Course repeated, not included in GPA
U	Unsatisfactory
W	Withdrawal from course without penalty
Z	Indicates continuing registration in Thesis/Dissertation courses.

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 (abbreviated GPA throughout this catalog) 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 "T" are subtracted from the total hours attempted before the GPA is calculated.

"I" Grade Policy

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 one academic semester, 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 "IF" grades will be calculated in the cumulative GPA and, 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, or C, shall be equivalent to a letter grade of "S."
 - b. Letter grades D or F shall be equivalent to a letter grade of "U." "S" 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 "T" to indicate that the course has subsequently been repeated and the original grade is not computed in the GPA. The repeated course will be annotated with "R" to indicate repeat course.

- 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 only, and applies to 1000-to-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 2.0 grade point average (GPA) (USF grades only) after any term, he/she will be placed on Academic Probation (AP) (see notes below). If the cumulative USF GPA is not raised to 2.0 or higher at the end of the next semester of attendance, that student will be automatically dismissed for one semester (TAD). No petition will be required in order for the student to return to school after one semester out, but in order to be processed for registration, the student must have the approval of an academic program representative, college coordinator of advising, or the designee. A student may utilize the temporary academic dismissal (TAD) policy only once. Upon returning to school, a student has two terms to raise the cumulative USF GPA up to 2.0 but must make at least a 2.0 GPA the first term after returning. A student academically dismissed a second time is permanently dismissed from the University (PAD).

NOTE:

1. Students admitted on probationary status must accumulate 30 semester credits and maintain a minimum cumulative 2.0 GPA each term enrolled with no single term GPA below a 1.0 GPA before the probationary status is removed. Advising is mandatory prior to registration. Undergraduate Studies shall monitor credentials of students in this status and assist advisors with appropriate information when needed. Not meeting these conditions would result in the student's being permanently dismissed from the University.
2. Any undergraduate or non-degree-seeking student whose cumulative GPA falls below 1.0 after completing an accumulated twelve or more USF semester-graded (A-F) hours will be permanently dismissed for academic reasons at the end of the semester in which it occurs. Students are strongly encouraged to confer with their academic advisors to explore ways of improving academic performance.

Any student who withdraws after the fifth day of classes while on Academic Probation or who has been placed on Conditional Registration by the Academic Regulations Committee will be Academically Dismissed.

Any student who receives only "I," "S," or "U" grades while on Academic Probation will be Academically Dismissed. Exception: Any student who is on work training or Cooperative Education will not have his/her academic status changed providing he/she is not enrolled in any academic course that term.

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. Once a student has had his/her record cleared in this manner, the Temporary Academic Dismissal (TAD) category does not apply. The student may receive credit for hours beyond 60 that were earned previously at USF or another four-year institution only with the endorsement from the Dean of the college of the student's major and the approval by the Academic Regulations Committee.

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. 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, the Academic Regulations Committee will approve the salvage and the student will be credited with a maximum of 60 semester hours and the USF GPA will begin again. Once a student has had his/her record cleared in this manner, the Temporary Academic Dismissal (TAD) category does not apply; or
- b. Request that the USF hours and GPA be retained and receive specific stipulations from the Academic Regulations Committee to clear the 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.

If a student has earned credit at USF and has a 2.0 or better GPA at USF and subsequently receives an A.A. from a Community College, the posting of the AA shall not remove the previous GPA generated at USF.

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
6D	Graduate student	admitted to a Doctoral Degree Program
7A	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 Undergraduate Studies 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 semester 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 financial accounts must be made at the University Cashier's Office.

Each student placed on administrative hold should determine from the Office of the Registrar which office placed him/her in this status and clear the obligation with that respective office.

Student Information Changes

Notifications regarding changes of address, name, residency, and citizenship should be filed promptly with the Office of the Registrar.

Final Examination

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 determining 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.

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 questions from a large pool.

Specific days shall be set aside for final examinations, and any comprehensive final examination must be given during this designated period. The period of two hours shall be allotted for each 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 performance during the previous academic year.

To be eligible to participate in the Honors Convocation, an undergraduate student must during the academic year preceding the Fall Honors Convocation have a USF GPA of 3.5 or above for all completed hours, a minimum of 24 USF graded (A-F) hours, and no incomplete (I) grades.

Dean's List

Full-time undergraduate students who demonstrate superior academic achievement during one semester will be honored on a "Dean's List." To be eligible for the Dean's List, a student must be in a "pool" (defined hereafter) and must complete 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 regularly to review petitions submitted by undergraduate students to waive University academic regulations. Students must petition and secure approval of the committee to return to the University after having been academically dismissed or to waive academic deadlines.

The committee normally meets once a week. To petition the committee, a student must secure the appropriate 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 by 4:00 p.m. Friday, 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-judicial 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 undergraduate college for the general purpose of considering student 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 recognition of successful completion of coursework in their chosen fields of study. Each individual is expected to earn his/her degree on the basis of personal effort. Consequently, any form of cheating on examinations or plagiarism on assigned papers constitutes unacceptable deceit and dishonesty. Disruption of the classroom or teaching environment is also unacceptable. This cannot be tolerated in the University community and will be punishable, according to the seriousness of the offense, in conformity with this rule.

Plagiarism

Plagiarism is defined as "literary theft" and consists of the unattributed quotation of the exact words of a published text, or the unattributed borrowing of original ideas by paraphrase from a published text. On written papers for which the student employs information gathered from books, articles, 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:
 - a. "Plagiarism, from a Latin word meaning 'kidnapping,' ranges from inept paraphrasing to outright theft." "[Direct quotation] 'Harry Shaw, *Concise Dictionary of Literary Terms* (McGraw-Hill, 1972), pp. 209-210.
 - b. As Harry Shaw states in his *Concise Dictionary of Literary Terms*, "Plagiarism, from a Latin word meaning 'kidnapping,' ranges from inept paraphrasing to outright theft." "[Direct quotation with an introductory statement citing the source.] '(McGraw-Hill, 1972), pp. 209-210.
 - c. Plagiarism is literary theft. To emphasize that point, Harry Shaw states that the root of the word comes from the Latin word meaning 'kidnapping.' "[Paraphrasing] 'Concise Dictionary of Literary Terms (McGraw-Hill, 1972), pp. 209-210.
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.
 - b. Plagiarism comes from a Latin word meaning "kidnapping" and ranges from paraphrasing to theft.
 - c. Plagiarism ranges from inept paraphrasing to outright theft. [Footnoting/citation styles will depend upon those used by different academic disciplines. Many disciplines in the Natural Science areas, for example, will cite the sources within the body of the text.]

Punishment Guidelines:

The student who submitted the subject paper, lab report, etc...shall receive an "F" with a numerical value of zero on the item submitted, and the "F" shall be used to determine the final course grade. It is the option of the instructor to fail the student in the course.

Cheating

Cheating is defined as follows: (a) the unauthorized granting or receiving of aid during the prescribed period of a course-graded exercise: students may not consult written materials such as notes or books, may not look at the paper of another student, nor consult orally with any other student taking the same test; (b) asking another person to take an examination in his/her place; (c) taking an examination for or in place of another student; (d) stealing visual concepts, such as drawings, sketches, diagrams, musical programs and scores, graphs, maps, etc., and presenting them as one's own; (e) stealing, borrowing, buying, or disseminating tests, answer keys or other examination material except as officially authorized, research papers, creative papers, speeches, etc. (f) Stealing or copying of computer programs and presenting them as one's own. Such stealing includes the use of another student's program, as obtained from the magnetic media or interactive terminals or from cards, print-out paper, etc.

PUNISHMENT GUIDELINES FOR ACADEMIC DISHONESTY:

Punishments for academic dishonesty will depend on the seriousness of the offense and may include receipt of an "F" or "Zero" on the subject paper, lab report, etc., an "F" in the course, suspension or expulsion from the University. The University drop and forgiveness policies shall be revoked for a student accused of academic dishonesty. The internal transcript of a student who is awarded an "F" for academic dishonesty will read "FF."

- 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 or words of a student in a classroom or teaching environment which in the reasonable estimation of a faculty member: (a) directs attention from the academic matters at hand, such as noisy distractions; persistent, disrespectful or abusive interruptions of lecture, exam or academic discussions, or (b) presents a danger to the health, safety or well being of the faculty member or students.

Punishment Guidelines for Disruption of Academic Process:

Punishments for disruption of academic process will depend on the seriousness of the disruption and will range from a private verbal reprimand to dismissal from class with a final grade of "W," if the student is passing the course, shown on the student record. If the student is not passing, a grade of "F" will be shown on the student record.

Procedures for Handling Student Violations Involving Alleged Academic Dishonesty/And Disruption Of Academic Process

Alleged violations of academic dishonesty or alleged disruptions of academic process will be handled initially by the instructor, who will discuss the incident with the student. It must be noted that the Faculty Senate considers the traditional relationship between student and faculty member as the primary means of settling disputes that may arise. If the instructor observes the alleged dishonesty occurring during an examination, he/she should, with discretion, notify the student of the fact before the student leaves the examination. In all cases, the instructor must attempt to schedule a meeting with the student to discuss the alleged dishonesty or disruptions.

After the discussion, if the student and instructor have reached a mutual agreement as to the solution, the instructor shall file a statement with the chairperson of the department or equivalent, e.g. campus dean, responsible for the course outlining the facts of the incident and the agreed-upon solution signed by both the instructor and student. A copy of this statement shall be given to the student. If no solution is reached, the matter should be referred to the chairperson of the department or the equivalent, e.g. campus dean, for attempt at resolution. If no resolution is reached, the matter should be referred to the dean of the college for attempt at resolution. If no solution is reached, the dean shall appoint a student/faculty committee consisting of an equal number of students and faculty to hear the two sides of the incident and to advise the dean regarding the disposition of the case.

Academic Committee Pre-Hearing Procedure. Within a reasonable time following the failure of the student/instructor/dean meetings to bring about a solution, and in no event later than three (3) months after such failure, the dean shall cause formal charges to be filed with the appointed academic committee. The charged student shall be provided a written notice of charges, in sufficient

detail to prepare for the hearing, no less than three (3) days before the hearing, except in cases of emergency as specified below.

Hearings

Emergency Hearings. An expedited emergency hearing may be held before an academic administrator appointed by the dean or by the appointed academic committee in cases 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 a determination of penalty or sanction if any, shall be presented to the student in writing within a reasonable period of time following the hearing.

Enrollment Status. The student's enrollment status will remain unchanged pending final 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 otherwise in writing by the charged student prior to the hearing.

Failure to Appear. If a student against whom charges have been made fails to appear, the academic committee or academic administrator may proceed in his/her absence.

Hearing on Appeal. The charged student may appeal the decision of the academic committee or appointed academic administrator within thirty (30) working days of decision to the Dean of Undergraduate Studies or the Dean of the Graduate School, whichever is appropriate. The record of the initial hearing may be considered on appeal and the student is entitled to access the record when appealing. The decision of the Dean of Undergraduate Studies or the Dean of the Graduate School is final.

General Distribution Requirements

All A.A. degree holders from in-state public accredited institutions and Florida College, Temple Terrace, will be considered as having met USF General Distribution Requirements, and 60 semester hours of work will be transferred. Line-by-line course evaluation will be conducted for out-of-state and in-state private institution A.A. degree holders. The determination of the prerequisites for a given academic program will remain the prerogative of the college in which the student is majoring.

A wide distribution of academic areas should be a part of a formal university education. For that reason, the following distribution requirements must be satisfied over the four-year period by the completion of 40 semester hours with at least 6 semester hours in each of these five areas:

Area I-English Composition

Freshman English (ENC 1101 and ENC 1102)

Area II-Fine Arts and Humanities

Any course offered by the Departments (or Programs) of: American Studies; Art; Classics; Communication; Dance; English (excluding ENC 1101, 1102, REA 1105); Foreign Languages; Humanities; Liberal Studies; Linguistics (only LIN 3010, 3801); Music; Philosophy (excluding PHI 2100); Religious Studies/Ancient Studies; Theatre. [See Rule 6A-10.30]

Area III-Mathematics and Quantitative Methods

Any course offered by the Department of Mathematics and/or any Engineering Computer Service course and/or any of the following courses: Business and Economic Statistics, QMB 2150, 3200; Logic, PHI 2100; Social Science Statistics, STA 3122. [See Rule 6A-10.30]

Area IV-Natural Sciences

Any course offered by the Departments (or Programs) of: Astronomy; Biology (including botany, microbiology and zoology); Chemistry; Geology; Physics; and/or Introduction to Oceanography, OCE 3001; Biological Anthropology 3511.

Area V-Social and Behavioral Sciences

Any course offered by the Departments (or Programs) of: Africana Studies; Anthropology (excluding ANT 3511); Criminology; Economics (excluding QMB 2150, QMB 3200); Geography; Gerontology (including HUS); History; International Studies; Political Science; Psychology; Sociology; Interdisciplinary Social Sciences (excluding STA 3122); Women's Studies; and/or any of the following courses: Educational Psychology, EDF 3210; Survey of Mass Communications, MMC 3000; Introduction to Public Administration, PAD 3003; Public Financial Administration, PAD 4202.

Acceptable in the total of 40 semester hours but not part of any of the five areas:

*The Teacher in a World of Work, EVT 3060;

*Use of the Library, LIS 2001.

Since each college may recommend specific courses for the satisfaction of each area, students should consult the distribution requirements as listed in each college section of the catalog.

Courses required for a student's major program will not be counted in the total of 40 hours, although areas of the general distribution requirements may be waived where appropriate.

No more than 8 hours in a single department (or program) may be counted toward distribution requirements for any area.

A student may appeal to the coordinator of advising in his/her college for exceptions to these courses prior to registration in such courses.

A student must check with his/her college to be sure he/she is meeting general distribution requirements and special certification or accreditation requirements where appropriate.

Note: Education majors must take courses in at least two different departments under Areas II and V.

*College of Engineering is unable to accept these courses as a part of its engineering accredited program.

Liberal Arts Requirements

Beginning in the Summer, 1994, the General Education Requirements will be replaced with the Liberal Arts Requirements. All new students and Former Students Returning will be 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	6
Quantitative Methods	6
Natural Sciences	6
Social Sciences	6
Historical Perspectives	6
Fine Arts	3
African, Latin American, Middle Eastern or Asian Perspectives	3
	36

Exit Requirements

Major Works and Major Issues	6
Literature and Writing	3

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 and environmental 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 or another institution, by obtaining a sufficient 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 appreciation of how course content relates to their everyday experiences; and a historical 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 artistic, cultural, economic, intellectual, religious, social, and/or political history is required. At least three (3) semester hours will be in the 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.

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. At least one of the Major Works and Major Issues courses will be taken outside the student's major discipline(s) and may, with the consent of the instructor, be taken for S/U credit. The major works and major issues of 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.

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.

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.

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 appropriate 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 General Distribution 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. No grades may be changed following graduation.

In addition, at least 60 semester hours must 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 Academic Regulations Committee. This policy does not affect approved articulation programs based on the A.S. degree. For information regarding such programs consult the Office of Community College Relations.

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 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 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.

The Board of Regents suspended this policy for all students who will graduate Summer Term, 1993, Fall Semester, 1993, or Spring Semester, 1994. The Board of Regents will make a determination in July, 1993 of the necessity of maintaining the suspension or of reinstating the summer session attendance requirement for all other students.

Foreign Language Graduation Requirement for B.A. Students

In addition to the foreign language entrance requirement (as required by FS 240.233 - see Page 13, No. 3) 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 either two semesters 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 competency 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	Greek (Modern)	Polish
Chinese	Hebrew (Modern)	Portuguese
French	Italian	Russian
German	Japanese	Spanish

American Sign Language

Approval needed by the student's program/department major.

Students electing to take the examination in French, German, Italian, Portuguese, Russian, or Spanish should apply to the Director of the Division of Modern Languages and Linguistics. Students taking the examination in Ancient or Modern Greek or in Latin should apply to the Director of Classics. 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 Modern 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 Modern 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.

Major Programs of Study

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.)
 Biology (Biotechnology) (BTK) (B.S.)
 Botany (BOT) (B.S.)
 Botany (Environmental Science) (BES) (B.S.)
 Chemistry (CHM) (B.A.)
 Chemistry (CHS) (B.S.)
 Chemistry (5-Year Program) (CBM) (B.A.)
 Classics (Interdisciplinary Classics) (ICL) (B.A.)
 Classics (Latin) (CLL) (B.A.)
 Classics (Latin-Greek) (CLS) (B.A.)
 Clinical Chemistry (CHC) (B.S.)
 Communication (SPE) (B.A.)
 Criminology (CCJ) (B.A.)
 Economics (ECN) (B.A.)
 English (B.A.)
 Literature (ENG) (B.A.)
 Creative Writing-Fiction (CWF) (B.A.)
 Creative Writing-Poetry (CWP) (B.A.)
 Professional-Technical Writing (CWT) (B.A.)
 French (FRE) (B.A.)
 Geography (GPY) (B.A.)
 Geology (GLY) (B.A.)
 Geology (GLS) (B.S.)
 German (GER) (B.A.)
 Gerontology (GEY) (B.A.)
 Gerontology (GES) (B.S.)
 History (HTY) (B.A.)
 Humanities (HUM) (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 (ISI) (B.A.)
 Interdisciplinary Studies (BIS) (B.I.S.)
 International Studies (INT) (B.A.)
 Italian (ITA) (B.A.)
 Liberal Studies (ALA) (B.A.)
 Mass Communications (B.A.)
 Advertising (ADV) (B.A.)
 Broadcasting News (NWS)
 Broadcasting - Program & Production (PGM) (B.A.)
 Film (FIL) (B.A.)
 Journalism - Magazine (MAG) (B.A.)
 Journalism - News Editorial (JOU) (B.A.)
 Public Relations (PUR) (B.A.)
 Visual Communications (VIC) (B.A.)
 Mathematics (MTH) (B.A.)
 Medical Technology (MET) (B.S.)
 Microbiology (MIC) (B.S.)
 Natural Sciences Interdisciplinary (B.A.)
 Biology (INB) (B.A.)
 Chemistry (INC) (B.A.)
 Geology (ING) (B.A.)
 Mathematics (INM) (B.A.)
 Physics (INP) (B.A.)
 Philosophy (PHI) (B.A.)
 Physics (PHY) (B.A.)
 Physics (PHS) (B.S.)
 Political Science (POL) (B.A.)
 Psychology (PSY) (B.A.)
 Religious Studies (REL) (B.A.)
 Russian (RUS) (B.A.)
 Social Work (SOK) (B.S.W.)
 Sociology (SOC) (B.A.)
 Spanish (SPA) (B.A.)
 Women's Studies (WST) (B.A.)
 Zoology (ZOO) (B.S.)
 Zoology (Environmental Sciences) (ZES) (B.S.)

College of Business Administration (B.A./B.S.option):

Accounting (ACC)
 Economics (ECN)
 Finance (FIN)
 General Business Administration (GBA)
 Management Information Systems (ISM)
 Management (MAN)
 Marketing (MKT)

College of Education (B.A./B.S. option):

Art Education (ARE)
 Botany Education (BOE)
 Business and Office Education (BTE)
 Chemistry Education (CHE)
 Distributive Education (DEC)
 Elementary-Early Childhood (EEC)
 Elementary Education (EDE)
 English Education (ENE)
 Special Education
 Behavior Disorders (EED)
 Mental Retardation (EMR)
 Specific Learning Disabilities (ELD)
 Foreign Language Education (FLS) (B.A.)
 French (FLF)
 German (FLG)
 Italian (FLI)
 Russian (FLR)
 Spanish (FLA)
 Industrial-Technical Education (EVT)
 Mathematics Education (MAE)
 Music Education
 General (MEG)
 Instrumental (MEI)
 Vocal (MEV)
 Physical Education
 Elementary (PTE)
 Secondary (PTS)
 Wellness (PTW)
 Physics Education (PHE)
 Science Education
 Biology (NSB)
 Chemistry (NSC)
 Physics (NSP)
 Social Science Education (SSE)
 Speech Communication - English Education (SED)
 Zoology Education (ZOE)

College of Engineering:

Chemical Engineering (ECH) (B.S.C.H.)
 Civil Engineering (ECE) (B.S.C.E.)
 Computer Engineering (ECP) (B.S.C.P.)
 Computer Science (ECC) (B.S.C.S.)
 Electrical Engineering (EEL) (B.S.E.E.)
 Engineering (EGU) (B.S.E.)
 Engineering Science (EGC) (B.S.E.S.)
 Industrial Engineering (EIE) (B.S.I.E.)
 Information Systems (EIF) (B.S.I.S.)
 Mechanical Engineering (EME) (B.S.M.E.)

College of Fine Arts (B.A.) (B.F.A.) (B.M.):

Art (ART) (B.A.)
 Art History (ARH) (B.A.)
 Dance (DAN) (B.A.)
 Music (MUS) (B.M.)
 Theatre (TAR/TFA) (B.A./B.F.A.)

College of Nursing (B.S.):

Nursing (NUR)
 Nursing (NRN)

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.

Minor Fields of Study

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

College of Arts and Sciences:

Africana Studies - Option I or II
 African Studies
 American Studies
 Anthropology
 Asian Studies
 Communication
 Criminology
 Economics
 English: English and American Literature
 English: Professional-Technical Writing
 English: Creative Writing
 French
 Geography
 Geology
 German
 Greek
 History
 Humanities
 Human Services
 Interdisciplinary Classics
 International Studies
 Italian
 Latin
 Linguistics
 Manual Communications
 Mathematics
 Philosophy
 Political Science
 Psychology
 Religious Studies
 Russian
 Sociology
 Spanish
 Women's Studies

College of Business Administration:

Economics
 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 completing a minimum of two semesters (Fall, Spring, Summer) as a degree-seeking student per year at USF, inclusive of receipt of grades for courses, (excluding W's) through time of graduation. 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.

Double Undergraduate Major

Students may elect to graduate with two majors. In that event, they must apply independently to each college 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.*

*Note that those students who complete the requirements for a second major must be aware that they will not receive a second degree.

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 from a baccalaureate institution, 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 requirement.

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 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.

A student who expects to graduate with a bachelor's degree in the summer term may participate in the spring commencement ceremony. In order to be eligible to participate, these summer graduates must submit the "Request to Attend the Spring Graduation Ceremony" Form by the Spring Semester graduation application deadline (see Academic Calendar).

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 Undergraduate Studies.

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. degree). 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 Undergraduate Studies.

It is the student's responsibility to clear all "I" grades (incompletes) in courses required for graduation and to provide official transcripts of all transferred course work needed for graduation at least 3 weeks prior to the end of the term in which he/she expects to graduate.

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.

Honors at Graduation

A baccalaureate candidate must first have an overall GPA for all work attempted at USF on the standard grading scale of a 3.500 or higher to be considered for honors. In addition, transfer students and USF students who have post-secondary work elsewhere to be eligible for honors must have a GPA of 3.500 or higher when combined with all work attempted at other institutions. The forgiveness policy at USF or other institutions will not be applicable in computing the GPA for honors nor are plus/minus grades awarded at other institutions.

Candidates with a GPA of 3.500 but below 3.710 shall receive a diploma designation of *cum laude* (with honor).

Candidates with a GPA of 3.710 but below 3.900 shall receive a diploma designation of *magna cum laude* (with higher honor).

Candidates with a 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*.

Commencement

Commencement ceremonies at USF (Tampa) are held twice a year: Fall and Spring.

A student who expects to graduate with a bachelor's degree in the summer term may participate in the spring commencement ceremony. In order to be eligible to participate, these summer graduates must submit the "Request to Attend the Spring Graduation Ceremony" Form by the spring semester graduation application deadline (see Academic Calendar).

All students who have graduated the previous summer term and all candidates for degrees in the fall semester are eligible to participate in the December graduation. Information regarding the ceremony will be mailed to the students during the semester in which they should participate. If information is not received, the student should contact the Office of the Registrar. Graduate students (master's, education specialist, and doctorate) will not participate in commencement exercises until all requirements for such degrees have been fulfilled.

Certification 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 the 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 Distribution 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 present a score (passing score after August, 1994) on 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 form # USF 2075 Rev. 3/92, Eff. 5/92 can be obtained from the Center for Academic Advising in the Division of Undergraduate Studies prior to the application deadline. The deadline to apply for a degree 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 Distribution 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 Distribution Requirements are 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 terms of the student's enrollment without regard for the student's declared major. Student 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 Distribution 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 Distribution 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. 228.093 and 240.237 and USF Rule 6C4-2.0021, Florida Administrative Code, students have the rights 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		Office of the General Counsel
4202 Fowler Avenue		ADM 254
Tampa, Florida 33620		4202 Fowler Avenue
		Tampa, Florida 33620

Release of Student Information

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

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

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

Students must inform the USF Office of the Registrar in writing (forms available for that purpose), if they wish directory information to be withheld. Such requests must be received within the first two (2) weeks of the semester and will remain in effect until the student has not been enrolled at USF for three (3) consecutive terms.

Notification to the University of refusal to permit release of "directory information" via the *University Directory* must be received no later than the end of the first week of classes in the Fall Semester.

ACADEMIC PROGRAMS AND SERVICES

UNIVERSITY OF SOUTH FLORIDA - 1993/94 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 Class Schedule. 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 grants credit for general distribution requirements and for a number of specific courses through CLEP General Examinations and CLEP Subject Examinations. Performance levels necessary to achieve credit are established at a common level for all universities and community colleges in the State system. Generally the performance levels are based on the average score of students who have already taken the courses.

The following policies apply to this program:

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
Mathematics

Courses

ENC 1101 and ENC 1102
MAC 2102 and MGF 2202

2. Transfer students from SUS or Division of Community College institutions must have scores or CLEP credit posted on their transcripts to receive CLEP credit at USF. Transfer students from non-SUS or non-Division of Community College institutions must have scores which meet the State Board of Education minimum score standards posted on official transcripts. The receiving college will determine, based upon guidelines, the applicability of these credits to the student's (baccalaureate) degree requirements.
3. Credit for CLEP *Subject Examinations* will be awarded for passing scores only on those examinations which are recognized by USF and do not constitute duplicate course credit.
4. CLEP Examinations (General or Subject) for English do not satisfy the writing requirements for SBE 6A-10.30, although they do provide credit for the appropriate English courses.
5. CLEP General/Subject Examinations in mathematics, calculus, college algebra, trigonometry may satisfy only 3 semester hours of mathematics required (College Algebra or above) for SBE 6A-10.30.
6. The appropriate CLEP General Subject Examinations in mathematics and high school transcripts indicating a grade of "C" or higher in mathematics course work (College Algebra, Trigonometry, and Calculus) satisfy all 6 semester hours of the mathematics requirement.

Applications for and additional information on CLEP are available in the Office of Evaluation and Testing.

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, Undergraduate Studies.

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, and career opportunities. Academic 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, FAO 100-U, University of South Florida.

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.

State University System, External Degree Program Bachelor of Independent Studies (BIS)

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

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.

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 State University System of Florida (SUS) offers over 125 university-credit courses by correspondence, incorporating courses from academic departments at USF, FSU, and UF. The program is centrally administered for Florida's state universities through its offices in Gainesville. Registration may occur at any time throughout the year; students work at their own pace, and may complete any required examinations at USF or other testing sites.

Free course catalogs may be obtained by visiting the USF Office of Continuing Education, writing to the Department of Independent Study by Correspondence (1223 NW 22nd Avenue, Gainesville, FL 32609), or calling toll-free 1-800-255-5927.

USF considers independent study by correspondence as resident credit. Grades are not transferable. Exception: 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, Scotland, Australia, Israel, Sweden, Japan, and Canada. 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. There is a basic ISEP charge which is paid at USF and covers the registration/tuition at the exchange university. In some programs, meal plan and room charges must also be paid at USF, while in others, board and room are paid to the exchange university. Decisions about covered charges and services are based upon cooperating contractual agreements. There is an application charge of \$200.00 for international exchange, which is refunded only if a qualified applicant cannot be placed. Students on financial aid continue to receive it from USF while on exchange. 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 and grades earned on exchange are accepted and entered into the USF record (transcript) and grades earned on exchange are merged into the USF GPA.

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. Programs offered by the SUS are listed below:

Administered by USF under the auspices of the International Affairs Center and the Travel-Study Office of the School of Continuing Education are:

*One, two, or three-month study in Paris and in Tours, France. In-class study in the French language in cooperation with the Alliance

Francaise. In conjunction with this language study, an intensive program in French culture is offered during the month of July. The latter program consists of reading, lectures, and on-site visits in Paris combined with day-long excursions to important historical locations in the provinces.

*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 located in Madrid, Spain.

*A summer program in San Jose, Costa Rica in conjunction with the Forester International Institute. This flexible program of study of Spanish offers courses lasting from two weeks to three months.

*A summer study-travel program to Mexico. This program provides the participants with an opportunity to study selected Pre-Columbian cultures through visits to archeological sites.

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

*A year-around program conducted in Merida, Venezuela in collaboration with the University of the Andes. The focus is Spanish language and South American culture, but students with advanced linguistic skills in Spanish may take a variety of courses in liberal arts, social sciences and business.

*A four-week summer program in German language and culture in Berlin.

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

New study abroad opportunities are constantly being added. Check with the International Affairs Center Office in Cooper Hall 292 for details.

In addition to the programs sponsored by academic departments, USF offers a variety of travel-study programs through PACE. These are coordinated by the Travel-Study Office of the School of Continuing Education.

*A two, three, or four-week summer program at Cambridge University.

*A three or six-week summer program in twentieth-century British literature or social history at the University of Edinburgh.

An additional ten to fifteen travel programs are offered each year to a variety of locations throughout the globe. All include several weeks of intensive study on the Tampa campus prior to the travel segment. Recent programs have focused on Egypt, China, Australia, England, and the Soviet Union.

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

*Administered by USF: a variety of residential and short-term programs abroad, many of which are exchanges; countries include Holland, Poland, China, Austria, and Columbia.

*Administered by Florida State University: semester and academic year programs to study centers in Florence, Italy; London, England; and Belgrade, Yugoslavia, as well as several short-term summer study-travel programs.

*Administered by the University of Central Florida: summer programs in Oviedo and Seville, Spain; Urbino, Italy; and Lisieux, France. Two internships for students of business are available in Paris, France and Tilberg, Netherlands.

*Administered by Florida Atlantic University: a summer program to the Mayan ruins in the Yucatan.

*Administered by the University of West Florida: study-abroad programs to Finland, Ireland, Norway, Japan, Canada, and Taiwan.

*Administered by Florida International University: summer programs in Cambridge, England, and in Costa Rica.

*Administered by the University of North Florida: summer programs to England, Ireland, and Belize. Students who prefer independent study abroad, rather than the formal institutional programs, may participate in the Off-Campus Term Program. (See the description under this heading.)

The programs described in this section are approved exchange or study-abroad programs and will be considered toward on-campus credits. Students who plan to participate in study abroad programs should consult their departmental advisors well in advance to determine whether the course of study they plan to pursue will be acceptable for meeting other degree requirements.

Information about these and other programs, as well as advising on study abroad, may be obtained from the Overseas Information Center and the Travel-Study Office in CPR 468.

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 state-wide articulation agreement and of USF transfer student policies, such as academic salvage and full acceptance of the Associate of Arts degree.

Academic Services and Support THE USF LIBRARY SYSTEM

The seven libraries of USF consist of the three libraries of the Tampa campus: Tampa Campus Library, Health Sciences Library, Florida Mental Health Institute Library; Nelson Poynter Library at the St. Petersburg Campus; Jane Bancroft Cook Library at the New College/Sarasota Campus; and joint use facilities with community colleges at Edison Community College in Ft. Myers and Polk Community College in Lakeland. The System provides access to information resources to fulfill the instructional, research, and artistic needs of students, faculty, and staff of USF. In addition, the System also has a responsibility to serve the educational, cultural, business, and professional information needs of the citizens of USF's service area and the national academic community.

The USF library system contains over 1,100,000 volumes, and the SUS libraries together contain over 10,000,000 volumes of information resources. Books and periodicals are cataloged and arranged on open shelves using the Library of Congress Classification System. Books may be checked out with renewal privileges; periodicals may not be checked out.

Library User Information Service (LUIS), the online catalog, may be searched by author, title, subject, and keyword to identify the library's holdings. LUIS contains records for the USF libraries, all nine SUS libraries in Florida, online catalogs worldwide, and serves as a gateway to several bibliographic databases. Terminals located in various USF libraries provide access to the online catalog. Remote access to the same catalog is also possible through any campus terminal linked to the USF mainframe or via dial-in procedures.

Regional Exchange Center (REC) service can obtain materials from other USF campus libraries upon request. Thus, students and faculty have access to resources beyond the on-site collections at each campus. REC forms are available at reference and circulation service desks.

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 800,000 volumes, 4,500 periodicals and 2 million 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, with service provided at the Reference desk. Reference librarians assist students and faculty in using all types of information sources: print, media, microform, computer, CD-ROM, on-line. Reference librarians offer computer searches of on-line databases to students and faculty on a cost recovery basis. Some of these same databases may be searched at no cost by using the LUIS catalog or CD-ROM databases in the Reference area. Reference librarians provide classroom presentations and teach LIS 2001, Use

of the Library. CALL/USF, the library's information service to the community, offers document delivery to USF users. There is a fee for CALL/USF services.

Periodicals Collection: The Periodicals Collection is on the second floor. In addition to more than 4,500 periodicals, the library has selected newspapers from Florida, from major cities in the U.S., and from some foreign countries. A large collection of materials is available in microformat, also located on the second floor. These unique research collections provide access to many important sources otherwise only accessible at other libraries. The library has both a microfiche reproduction service and self-service photocopying equipment.

Government Documents: The Library serves as a selective depository for U.S. and Florida Government publications and acquires United Nations committee reports on microfiche. These documents are augmented by the acquisition of selected publications of other public agencies. The Government Documents Department houses these collections and is located on the basement level. Topical displays of documents are featured frequently in the department. A patent library has been added to the Documents collection.

Special Collections: The fourth floor Special Collections Department houses the library's rare books and the University Archives. A number of nationally significant research resources, primarily in support of graduate programs, have been collected. This department contains an extensive collection of books, maps, documents, and manuscripts. These rich resource items are in closed stacks, but with assistance are available at the Special Collections service desk.

Access Services (Circulation, Interlibrary Loan, Reserve, and REC: Regional Exchange Center): The Access Services' Circulation and Reserve departments are located on the first floor. The Reserve collection, containing books and articles "reserved" at faculty request for use of a particular class, is available at the Reserve service desk. Circulating books that are shelved on the third through fifth floors can be checked out at the service desk. The Library uses an automated circulation system which facilitates easy and quick check out of books. All materials must be checked out prior to exiting the library security system in the first floor lobby. A statement of the Library's circulation policy is available at the Access Services desk on the first floor.

University Media Center and Lab: The University Media Center (UMC) provides media for curriculum support and instructional materials. Adult-level and K-12 audiotapes, records, kits, transparencies, slides, and other study and research presentation aids are available for loan. A production room provides graphics and photography facilities, duplication equipment, typewriters, and a laminator for use. University Media Center Lab (UMC Lab) provides equipment and media on reserve for individual and class use. Various kinds of media are available for personal and class study aids. Open University and Instructional Television Fixed Service (ITFS) video tapes are available through scheduling.

DIVISION OF LEARNING TECHNOLOGIES

Audiovisual Media Services provides equipment such as 16mm projectors, filmstrip projectors, slide projectors, TV receivers/monitors, video projectors, video equipment, computer projection units, etc., for classroom use, University events and other functions. Audiovisual Services also provides simple and complex public address systems, recording and dubbing services, and maintenance of audio and video equipment.

The Film/Video Distribution's collection contains instructional and informational films and videotapes that are available for utilization in scheduled USF courses at no charge; for rental to external agencies or non-academic internal utilization; and for preview in the Film/Video Distribution Office located on the Tampa campus. Reference and research services for films not in the USF collection are also provided.

The Graphic Design Department provides a full range of graphic design applications including brochures, flyers, transparencies, charts, graphs, signs, video animation, computer-generated slides, and displays. Graphic designers provide solutions to meet communication design needs for instructional, informational, and promotional activities of the University.

ID's. All students, faculty, and staff must have an identification card. Legal identification must be shown to obtain an ID. ID service is available throughout registration and special hours during the first week of classes each semester. During the balance of the semester, ID's are made Monday and Wednesday from 9-12, 2-5, Tuesday and Friday from 8:30-3, Thursday from 10-12, 2-5:45. There is no charge for the original ID or to replace a damaged ID, providing the original card is presented. All other replacements are \$5.00.

The Media Productions/ITFS Department complements the video production and recording needs of the University by providing an in-house classroom studio production facility. The studios are part of the University's Instructional Television Fixed Service (ITFS) network. Courses, teleconferences, and meetings can be recorded or transmitted live to any designated receive site within a 25-mile radius of the Tampa Campus. Media Productions also produces multi-image slide shows and remote/studio instructional, informational and promotional video productions for faculty, staff, and student organizations. Creative services offered include scriptwriting, photography, visual design, soundtrack production, and all stages leading to the final product. Creative and technical consultation is available for any audio visual communications need.

The Media Supplies and Services Department provides comprehensive assistance in the selection, design, production and utilization of a varied range of instructional and presentational materials and tools. Services include overhead transparencies, signs, drymounting, matting, laminating, framing, punch/bind and poster size enlargements. AV materials, such as microphones, patch cords, projection lamps, overhead transparencies, surge protectors, audio and video cassettes, splicing tapes, and more are available for purchase.

Teleconferences

Teleconferences use one-way video and two-way audio to receive live, satellite-transmitted, interactive programs, conferences, and discussions from anywhere in the world. USF teleconference facilities allow faculty, staff, students, and the business community access to pertinent information presented by renowned experts in their field. Viewers, in remote sites who share an educational need, are virtually connected across time and space by electronic technology. USF's satellite receiving dish allows reception of both KU and C band teleconferences, as well as re-transmission from the Tampa campus to selected receive-sites within the University's five-county transmission area. The Office of Teleconferences also provides full coordination services for uplink capability. Complete teleconference program planning, coordination and administrative services, including marketing and promotion, registration, program materials, fiscal management, and evaluation are available.

Open University (O.U.)

The Open University (O.U.) brings USF credit courses to students via television and radio. Broadcast on WUSF-TV, Channel 16 in the Tampa, St. Petersburg, Sarasota, and Lakeland areas and on WSFP-TV, Channel 30 in the Fort Myers area, O.U. is ideal for the working person, a parent with small children, a student who is unable to get into an on-campus course, or anyone with a desire to learn. Most programs are broadcast twice, at times convenient for students.

Many O.U. courses may be used to fulfill General Distribution and/or major requirements and may be used as elective credit for most degree programs. Some O.U. courses also may be used by Florida teachers to extend their teaching certificates. Students should check with their departments for clarification.

THERE IS NO MANDATORY FIRST DAY CLASS ATTENDANCE POLICY FOR MOST O.U. COURSES UNLESS INDICATED. This means that, while you are not responsible for attending a "first class" for most O.U. courses (other than those scheduled and listed on your syllabus), you will NOT BE AUTOMATICALLY DROPPED from an O.U. course. The ONLY way you may drop an Open University course is to fill out a drop/add form and turn it in to the Office of the Registrar.

All O.U. credit courses require some combination of quizzes, papers, special projects, etc., and students receive a letter grade or elect in some courses, to take a satisfactory/unsatisfactory option.

Registration dates/times coincide with the University's registration schedule. Both degree-seeking and non degree-seeking students may register for the Open University telecourses at the Tampa, St. Petersburg, Sarasota, Fort Myers, or Lakeland campuses. **Students registering by phone must get a course syllabus from the O.U. office before classes begin. Students registering at the Tampa Campus (not by phone) must have a permit stamp from the O.U. office before registering.**

The O.U. office, like all departments at USF, is unable to give course grades or assignment grades over the phone. With proper identification (driver's license, military ID, USF ID), O.U. will be happy to return papers or give grades to you personally.

USF COMPUTING/CFRDC

USF is the host institution for a large scale computer facility designated as the Central Florida Regional Data Center (CFRDC). This facility operates as a computing utility within the SUS and provides instructional, research, and administrative computing support for the University and numerous other agencies. CFRDC's support staff consists of Computer Operations, Data Communications, and Systems Programming. Computing accounts are established through the ISS Financial Services group.

Central site computing equipment located in the Student Services Building on the Tampa campus includes an IBM 3090-400E processor with a vector facility supporting tape and disk storage subsystems, laser and impact printers, providing MVS, VM, and AIX (UNIX) operating system environments. IBM RISC (Reduced Instruction Set Computing) equipment using AIX is also available for instruction and research usage. CFRDC manages and operates the campus-wide INTERNET providing access to research facilities on campus and the world via SURANET and BITNET. PC's and workstations are available at various locations on campus. In addition, remote access workstations are located at the St. Petersburg, Sarasota, Lakeland, and Fort Myers campuses. Terminals, microcomputers, printers, and other associated equipment are also maintained in "open use" areas to enable students, faculty, and staff access to 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 seven days a week.

PUBLIC BROADCASTING

WUSF-TV (Channel 16, Tampa) and WSFP-TV (Channel 30, Fort Myers) are non-commercial educational television stations serving the communities of the 18 surrounding counties as an important outreach arm of the University. They provide high quality educational, instructional, informational, cultural, and public affairs television programming and services to viewers in the Greater Tampa-St. Petersburg-Sarasota area and the Greater Fort Myers-Naples area of Southwest Florida, including USF faculty, staff, students, and other educational agencies. The stations are members of the Public Broadcasting Service (PBS), Southern Educational Communications Association (SECA), Florida Public Broadcasting Service, Inc. (FPBS), American Public Television Stations, Inc. (APTS), and WUSF-TV is a charter member of the Program Resources Group, Inc. (PRG).

WUSF (FM) 89.7MHz (Tampa-St. Petersburg) and WSFP (FM) 90.1MHz (Fort Myers and Naples) are member-supported, non-commercial public radio stations serving USF, its branch campuses and surrounding communities within an 18-county area, with 24 hours a day of fine arts, public affairs, and educational programming. Serving the region that includes about 1/3 of the population of Florida as Concert 90, the stations are members of National Public Radio (NPR), American Public Radio, and Florida Public Radio.

The WUSF and WSFP Radio Reading Service (RRS) broadcasts daily readings of newspapers, magazines, and other materials from Tampa, Sarasota, and Fort Myers for the blind, print- and physically-handicapped. Over 200 volunteers provide material on a 24-hour schedule. RRS airs on sub-carrier frequencies of WUSF-FM and WSFP (FM); qualified listeners receive the programming on special crystal-tuned receivers, loaned from the Service. The Service also provides the University community with ADA-required cassette recordings of print material for use by print-handicapped persons.

Engineering Services provides planning and design for expansion and modification of broadcast, Instructional Television Fixed Service, and other communications systems on campus, and prepares and maintains FCC and FAA permits for all the transmission facilities operated by the Division.

INSTITUTE ON BLACK LIFE

USF's Institute on Black Life was established in the Fall of 1986 with a mission to serve as a "bridge" between the University and the communities it serves. The main purpose of the Institute is to serve as a vehicle to utilize faculty, staff and student expertise with identified university and community needs for research, training, and program development.

Through its three major components—Research, Development and University/Community Service—the Institute seeks to enhance the economic, educational, social, political, and religious life of the community.

The Institute maintains an active and highly professional applied research program with faculty representation from various disciplines. It serves as the center for generating research and creative activity. Funds are sought through contracts, grants and private foundations to initiate new projects and provide resources to faculty, staff, and student research that is already in progress.

The Development component provides links with the private sector to establish support of African-American students through scholarships, fellowships, book funds, and program development. The Development Committee assists in fundraising efforts to provide programs which will enhance the quality of life for our minority communities.

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.

OFFICE OF RESEARCH

Research is an essential aspect of the educational programs of USF. All faculty members are encouraged to pursue research activities, and many students are afforded the opportunity to participate in research and training projects supported by public and private granting agencies.

The **Division of Sponsored Research** is the central coordinating unit for research and other sponsored education activities on all the University's campuses. It provides information about granting agencies to faculty and students and serves as a consultation center for faculty who desire to submit proposals for funding. All proposals for which outside support is sought must be transmitted through this office.

From its beginning, USF faculty and staff have been active in the search for new knowledge and have consistently demonstrated their concern about the world in which they live. With the support of private and public agencies, they have contributed to our knowledge about men and women and the world in which they live and applied their findings and skills to the solution of many contemporary problems. Since 1986, due to the efforts of USF faculty and staff, the University experienced an increase of 157% in external contract and grant funds. Many of their contributions were basic research; others were practical applications of new knowledge; still other projects made the specialized training and knowledge of USF faculty available to public officials, organizations working for social betterment, religious and educational institutions, and business and manufacturing organizations. Through their sponsored activities, USF faculty have made significant contributions to the University's instructional programs.

The **Division of Patents & Licensing** provides support to both faculty and student researchers on such matters as developing and maintaining copyrights, trademarks, and patents, evaluating technology for commercial potential, and marketing the commercialization of University research products. Through the USF Research Foundation, technology transfer to applications that benefit the public is made possible.

Graphicstudio is an internationally renowned art workshop that promotes new methods in sculpting and printmaking. Participating artists and students acquire research opportunities free from the barriers to creativity frequently encountered in commercial studios. This unique atmosphere attracts many prominent artists to Graphicstudio to create and experiment, providing unique opportunities for students associated with the University.

FLORIDA MENTAL HEALTH INSTITUTE

The 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 Law and Mental Health. The Institute conducts a broad range of applied research, training, and dissemination activities relating to the planning, development, delivery, and evaluation of public mental health services. FMHI's training and consultation activities are provided for 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 such professional groups as physicians and attorneys through organizations such as the USF Continuing Medical Education Office and the Florida Bar Association.

FMHI offers undergraduate and graduate students field placements, internships, research assistantships, volunteer, and part-time employment opportunities. Students may earn academic credit for clinical placements, internships, tutorials, or 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 departments.

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 into the mental health field.

FMHI's residential, day treatment, and out-patient programs are accredited by the Joint Commission on Accreditation of Healthcare Organizations (JCAHO). These direct service programs serve as sites for clinical demonstration and research. FMHI's clinical research focuses on finding the most effective, least costly, and highest quality means of delivering mental health services.

SCHOOL OF CONTINUING EDUCATION

Division of Special Programs

The Division of Special Programs is an academic division of the School of Continuing Education. Its main program is PACE (Program for Adult Credit Education), but it is also closely allied with the divisions of Travel/Study and MERIT (Multilingual Educational Resources, Information and Training), providing the option of college credit registrations for students in the latter two programs.

PACE, a delivery system for a non-traditional means of obtaining a B.A. degree for working adults, is a cooperative venture of businesses, unions, civic organizations, and educational institutions. The program is geared toward working adults who desire a degree but find it difficult or impossible to attend regular on-campus classes. It is also directed toward employees of businesses and industries which provide tuition rebates.

Through PACE, students may earn all electives and core requirements for a Social Science Interdisciplinary B.A. (with two cognates or emphases out of the following: psychology, anthropology, and contemporary social issues). PACE also offers all general distribution requirements and all non-major electives for any other B.A. major; a student pursuing a major other than the one listed above can

complete three years of study with PACE and then pursue the last year on campus. If sufficient interest in a particular major other than the ones listed above exists, PACE can also offer the courses necessary to the target audience requesting that major, subject to faculty availability and departmental permission.

PACE classes are scheduled in a variety of different ways to accommodate the busy "pace" of working adults: weekly classes, Monday through Thursday evenings, offered at various off-campus sites (including General Telephone Company of Florida, GTE Data Services, Metropolitan Life Insurance Company and Busch Gardens); Saturday classes on the USF Tampa Campus; and weekend conferences which meet three or four weekends a semester (all day Saturday and Sunday afternoon). PACE also encourages students to make use of Open University television courses. Typically, a student enrolled in the program can receive 9-12 hours of credit per semester by taking advantage of all instructional modes.

PACE also is a vehicle for the delivery of credit courses to public school board employees, librarians, mental health counselors, and other employees of business or governmental agencies interested in specific courses. Typically, these programs are of limited duration and are directly sponsored by the employer.

All courses delivered by PACE are listed in the USF undergraduate or graduate catalog and are taught by USF instructors. Students in PACE programs must meet all USF admissions, good academic standing, and graduation requirements. All registration is handled through PACE (1) at the first and last class meeting of each PACE course every semester, (2) at orientation sessions, or (3) during regular office hours in the PACE office. Textbooks are delivered to the various sites for each class. Academic counseling and advice are also available.

The Division of Special Programs exists as a means for the University to respond quickly and flexibly to the needs of the USF service area for credit courses that cannot be conducted through the University's usual offerings. Consequently, the Division is receptive to adding new programs to its activities.

For details on any of these programs, contact the Division of Special Programs, USF, 4202 E. Fowler Avenue, Tampa, FL 33620-6610.

Travel/Study

The Travel/Study Office coordinates the vast majority of the University's overseas study programs. Study abroad consists of two major types: (1) residential programs at noted international colleges and universities, and (2) tours of a country or region that are preceded by several weeks of intensive study.

Residential programs of a semester length are sponsored by USF in Venezuela and Costa Rica and are made available to USF students at other overseas locations through cooperative programs. Residential programs in the Summer of less than a full semester are conducted by USF in Cambridge, England; Perugia, Italy; Madrid, Spain; Berlin, Germany; Moscow, Russia; and Paris, France.

The typical Travel/Study tour consists of lectures of a specific academic topic by USF faculty in advance and while overseas. All tours are led by USF faculty with experience and academic expertise in the country(s) toured. Destinations most often toured include Australia, China, Egypt, England, Ireland, Israel, Russia, and South America.

All residential tour programs are open to the general public as well as USF students; all programs include an academic course that may be taken on a credit or audit basis.

For details on overseas programs or tours, contact the Travel/Study Office, 4202 E. Fowler Avenue, USF, Tampa FL 33620-5550.

MERIT

MERIT (Multilingual Educational Resources, Information and Training) is a cooperative effort of the Division of Modern Languages and Linguistics and the Division of Special Programs developed to meet the needs of public school boards and their employees for training in working with Limited English Proficient students. A series of credit and non-credit courses in teaching English as a Second Language is conducted by MERIT through contracts with various local school boards.

In addition, MERIT provides community programs, such as the Foreign Language Program in Spanish (FLIPS) for children during

the Summer and the regular school year.

Other study abroad programs such as a Cultural Issues Program, are planned with the Universidad de Los Andes and VENUSA School of Languages to offer the Community the opportunity to develop cultural awareness and cross cultural understanding while teaching in Venezuela.

For details on any of these programs, contact the MERIT Office, USF, 4202 E. Fowler Avenue, Tampa, FL 33620-5550.

Education Continuing Education Credit Courses

Although some continuing education credit courses are generated by the University itself, most originate through requests that are initiated by individuals or interested groups. USF offers credit courses and programs to serve the in-service and continuing education needs of educators in a geographical area that encompasses Charlotte, Collier, DeSoto, Glades, Hardee, Hendry, Hernando, Highlands, Hillsborough, Lee, Manatee, Pasco, Pinellas, Polk, and Sarasota counties.

Both degree and non-degree seekers may participate in the continuing education credit program. Students desiring to obtain a degree must, however, apply for admission to the University on a degree seeking basis (see Requirements for Admission) at an early date so that courses taken may be considered for inclusion in a program of studies (see appropriate college programs).

To assure quality of instruction, continuing education credit courses, for the most part, are taught by the regular faculty of the University. When this is not possible, outstanding instructional personnel are recruited from neighboring accredited institutions.

The academic calendar for courses scheduled off-campus is essentially the same as for the University's on-campus credit program.

Enrollment in a continuing education off-campus credit course is accomplished by mail only. Enrollment forms may be obtained from the Office of the Registrar, the School of Continuing Education, from the local county school board offices, or from the course instructor at the first class session.

1. The enrollment form and payment of fees must be postmarked no later than the deadline announced in the University Class Schedule.
2. On-campus students enrolling in a continuing education course must use the enrollment by mail procedure.
3. Fees for continuing education courses are assessed the same as fees for classified and unclassified students. Consult the Fees Section for detailed information.
4. Enrollment forms for students whose fees are to be paid by school boards or state or federal grants must be forwarded in accordance with registration deadlines. Payment of fees or appropriate purchase orders must be enclosed with enrollment forms.
5. It is the responsibility of the individual student to ascertain that he/she has met the course prerequisites as published in this catalog.

Requests for continuing education courses in the field of education should be submitted to county extension coordinators designated by the county superintendent of schools.

Division of Lifelong Learning

The Division of Lifelong Learning offers a number of courses, services, and programs designed to meet the personal improvement, career, and cultural needs of individuals. Courses are non-credit and include special interest, career skills, professional development, test skills, and youth-teen programs. A variety of non-credit educational programs (workshops, seminars, short courses, etc.) is scheduled through the year by the colleges of the University and the school's Division of Lifelong Learning, making it possible for the University to serve greater numbers of people of all ages with richer and more diversified programs. The programs vary in length from one day to ten weeks, and the subject matter is concentrated as needed for the group being served.

The Continuing Education Unit (CEU) is awarded to participants who successfully complete programs that are sponsored by the School of Continuing Education and approved by an academic unit. Transcripts indicating awarded CEU's are available on written request.

The Division of Lifelong Learning develops programs for business and industry, government, professional, civic, and service groups. A variety of instructional methods is used to assure maximum participation. Distinguished faculty members from USF and other institutions of higher education, and national and international resource persons serve as consultants, instructors, and lecturers for the programs.

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

Registration in most programs is open to everyone who has a desire for knowledge and interest in the subject matter.

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 pre-school music classes through adult private instruction.

Dedicated to providing the highest quality musical instruction, the Division has a talented teaching staff comprised of musicians active as both teachers and performers. These include Florida Orchestra members in addition to leading community-based music teachers and free-lance musicians.

Division of Conferences and Institutes

The Division of Conferences and Institutes develops and coordinates short-term programs (conferences, institutes, seminars and short courses) consistent with the needs of specific groups and organizations which need to broaden their occupational and professional competencies. This division serves the academic and administrative units of the University as well as organizations such as business and industrial firms, government agencies, public school divisions, professional organizations, and other interest groups.

Organizations which require only management support during the conference itself, as well as those which require a full complement of services, can be accommodated by the Division. Professional program coordinators are available to provide assistance with conducting needs assessments, technical program design, program budget development, instructional resources, brochure preparation, logistics, registration, and recording of Continuing Education Units, on-site program management, program evaluation, and certificates.

For details, contact the Division of Conferences and Institutes, USF, 4202 E. Fowler Avenue, Tampa, FL 33620-6600.

Mature Student Counseling

Recognizing that education is a lifelong process, USF has developed programs and courses designed specifically to meet the needs of students over 25 years of age. Students who are above the traditional college age often have unique educational considerations that require special services. Group pre-admission advising and career counseling for mature students are available in the Division of Lifelong Learning.

Programs with or without academic credit are available for adults who wish to begin a college program, for those who are seeking to complete their interrupted college education, and for those who have earned a community college degree or undergraduate degree and now wish to earn a higher degree. A wide variety of courses and programs is offered in the daytime, evening, and through independent study for those who wish to update a degree earned in the past or for those who are seeking to enrich their intellectual and cultural lives.

Tuition Waiver for Senior Citizens

Florida residents who are 60 years of age or older by the first day of a respective semester/term may enroll on a space available basis

in certain undergraduate and graduate courses on the Senior Citizen Tuition Waiver Program. Academic credit is not awarded, examinations are not required, and grades are not given. A maximum of three courses per semester/term may be taken.

An orientation/registration session is held at the beginning of each semester/term. Senior citizens are encouraged to attend this program for additional information and ease in registration. For further information, contact the Division of Lifelong Learning, USF, Tampa, FL 33620.

UNDERGRADUATE STUDIES

Undergraduate Studies contains the Office of the Dean of Undergraduate Studies and the offices of Athletic Advising, Career Resource Center, Center for Academic Advising, Community College Relations, Academic Services for Students with Disabilities, Evaluation and Testing, Great Britain Exchange Program, McNair Achievement Program, Off-Campus Term, Orientation, Personal Excellence Program (PEP), University-wide Honors Program, Project Thrust, ROTC (Air Force and Army), Student Academic Support Services (SASS), and Student Support Services.

Undergraduate Studies is administered by a Dean, who supervises the several units and undergraduate academic programs that are not the purview of a single school or college; administers undergraduate student academic appeal processes and waiver policies; allocates undergraduate out-of-state fee waivers; acts on recommendations from the Undergraduate Council, the Academic Regulations Committee, the Council on Academic Advising, and the Faculty Committee on Student Admissions. It is the administrative "home" for the USF undergraduate student who has not yet declared an academic major.

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" student populations, and special advisement for minority students. The staff prepares students for entrance into all limited access majors (e.g. Education, Engineering, Business, Nursing, and Mass Communications), and evaluates and certifies all students seeking Associate of Arts certificates.

Academic Services for Students with Disabilities

The Office of Academic Services for Students with Disabilities provides assistance to eligible university students to allow full participation in all academic courses and activities. Services such as readers and notetakers and adaptive equipment are provided through this office. Students are encouraged to contact the office prior to registering for classes to make arrangements for the planning of services. (See page 9 for further information.)

McNair Scholars Program

The McNair Scholars Program is designed to prepare 20 low-income, first-generation and underrepresented junior for doctoral programs. The program provides faculty mentoring, a research institute, and seminars.

Personal Excellence Program

The Personal Excellence Program (PEP) is an academic and personal support program for all black, first-time-in-college students admitted to USF and who are not Student Support Services participants. The program is basically a two-tier program. The first tier of the program provides specific services to students who might not meet all admission criteria but whose high school records indicate the potential to succeed in college. These alternative admit students attend a seven-week Summer program. Students who participate in the residential Summer program are offered an 8-hour course curriculum, college survival seminars, and comprehensive orientation. The second tier of PEP is for Fall Semester black Freshman. PEP

provides a comprehensive Fall Orientation program, special academic advising sessions, and other cultural programs.

Project Thrust

Project Thrust is a University-wide program designed to assist black undergraduate students at USF to complete their education. Assigned to four of the undergraduate colleges, this retention program specifically aids those students who have declared majors. The major role of the Project Thrust advisor is to provide students with immediate and long-term assistance necessary to ensure the successful completion of programs within the respective colleges.

During the year, Project Thrust provides advising and counseling, tutorial services, and workshops to help with test preparation at no charge to the student.

Student Support Services Program

The Student Support Services Program is a federally funded grant program which provides academic and personal support for selected students who are experiencing academic difficulty, from low income families, who are first generation, or who are physically disabled. The program 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.

Students who participate in the program receive personal counseling, tutorial assistance, and special instruction in the areas of English composition, reading, study skills, and mathematics.

Air Force ROTC

(Reserve Officer Training Corps)

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. Length of service is based on the type category in which you enter active duty for this program.

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, a mathematical reasoning course, 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, and transfer students from non-ROTC colleges, the opportunity of taking AFROTC. Application starts in the Fall prior to entry year and selection is in the Spring prior to entry year. If selected, the student attends a six-week field training encampment in the summer prior to program entry. Upon entering the program, the student then completes all undergraduate degree requirements, a mathematical reasoning course (if not already completed), and 12 credit hours of AFROTC courses.

Enrollment in a weekly, one and one quarter-hour, non-credit leadership laboratory is required of all students in the program. 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 \$100 per month tax-free stipend. In addition to the program requirements, scholarship recipients must also complete an English composition course and two terms of a major Indo-European or Asian language, if not completed in high school. Non-scholarship students in the final two years of the program are eligible for the Professional Officer Course Scholarship and the monthly \$100 tax-free stipend. Qualified students receive up to \$2,000 a year which covers tuition, fees, and books. Those interested in more information about scholarship criteria should contact the AFROTC Department at (813) 974-3367.

Students interested in enrolling in the four-year or two-year programs must begin registration procedures through the AFROTC office (HMS 111). 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.

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, organizing, 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 six-week field training course, and the Advance Course. The two-year course allows academic juniors to enter the Advanced Course and to be commissioned as a second lieutenant in two years. 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 engineering, nursing, physical science, business, social science and other fields. The scholarship pays for tuition, books, lab fees, and certain other academic expenses.

All Advanced Course students receive \$100.00 per month for subsistence. This is in addition to the pay of approximately \$650.00 which the students receive while attending the six-week field training course at the Summer Advanced Camp.

Adventure training at the Airborne School, Air Assault School, and the Northern Warfare School is available to both Basic and Advanced Course students during semester breaks. Adventure training is also available during the academic year. Other training includes survival skills, hand to hand combat, rappelling, escape and evasion, orienteering, etc.

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. Any prior military service, Reserve or National Guard Basic training, or other ROTC training may qualify for full or partial completion of 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 semesters of classroom instruction of three hours each week, lab, field training exercises, and a six-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 duty as a pilot in the Army Aviation field, or serve in the fields of medical, personnel, administration, law, management, law enforcement, engineering, combat arms, or select duty from a list of many more opportunities.

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, human behavior, computer literacy, math reasoning, and military history), attend Advanced Camp or an appropriate substitute, maintain and graduate with a minimum of a 2.0 GPA, pass the Army Physical Readiness Test and meet the height and weight, and other requirements of the United States Army.

Community College Relations

The Office of Community College Relations represents USF to all two-year institutions, specifically to the twenty-eight Florida community colleges, and in turn serves as the point of contact and information for the community colleges and the University, the office coordinates and facilitates numerous articulation activities including program-to-program and faculty-to-faculty meetings. In addition, Community College Relations annually prepares and delivers updated counseling manuals to every Florida community college. This manual matches recommended courses of study at the community college with entrance and degree requirements for every USF degree program and academic track.

To achieve this goal of equity for transfer students, the Office of Community College Relations works closely with Florida community college students, faculty, counselors, and administrators as well as with such USF offices as Admissions, Students Affairs, Records and Registration, and the various colleges and academic departments to help prevent or solve problems of transfer students coming to USF.

USF subscribes fully to all of the provision of the statewide Articulation Agreement (Rule 6A-10.024) and strongly recommends that students complete the associate of arts degree, or in certain prior-approved areas the associate of science degree, before transferring. Special details for students who do not plan to complete the associate degree requirements are available from the Office of Admissions. Also, all transfer students should refer to other entries about undergraduate transfers in the Admissions section of this catalog.

Coming to USF, transfer students confront a transition into a new academic culture with different institutional regulations, procedures, and expectations. Everyone in the Office of Community College Relations stands ready to lend assistance in this important transition period.

Career Resource Center

One of the recognized goals of a college education is to maximize career satisfaction. The University has dedicated itself to assisting students in realizing their career objectives through programs offered through the Career Resource Center. Prior to utilizing the programs offered through the Center, students may want to seek additional assistance in the areas of personal assessment, values clarification, skills identification, and interest inventories offered through the Counseling Center for Human Development.

The Career Resource Center has a well-developed Career and Employer Information Library, a video-tape library for student viewing, a computerized Job Data Bank, and a staff of professional advisors to assist students.

Career Planning and Advising

Group and individual sessions are provided with emphasis on increasing students' awareness of available resources, classes, and potential employers with whom they might consider careers. Weekly classes on resume and cover letter writing, interview tips, job search strategies, Government Employment Information and orientation classes on the Placement Services and the Cooperative Education Program are available to all students.

Cooperative Education Program

The Cooperative Education Program (COE) is an academic program open to majors in most disciplines offered at the University. The program's objective is a balanced education where occupational experience is an integral part of formal education and theory is blended with practice. In addition to regular classroom and laboratory exercises, it acquaints the student with the world of work and a professional environment. The ultimate objectives of the program are to provide increased relevance in the educational process, give direction in career planning, bring business, industry, and government agencies close to the educational program of the University, give the University a better understanding of the market place for its graduates, and facilitate the placement of graduates into permanent employment with worthy employers.

A student must complete a minimum of 60 semester hours of academic work with a GPA of 2.5 or better before reporting for an

assignment with an employer. Students transferring from other schools must complete one semester on the USF campus prior to a work assignment in addition to a 2.5 GPA. Students must demonstrate progress toward their degree and maintain a 2.5 GPA each semester to continue in the program. Qualifying students alternate between semesters of training (paid employment) and semesters of full-time study until they complete a minimum of two semesters of off-campus work assignments. Application for the Cooperative Education Program does not guarantee placement. Placement is based on various factors: the availability of the opening, the student's GPA, the employer's acceptance, and the number of students to be placed in a particular area.

The University will assign students to training programs relevant to their educational and professional goals. Usually students are first placed on assignments where they can learn the fundamentals. They may then advance in the type of assignment from training period to training period.

Students are encouraged to submit an application for placement in the program at least one semester prior to the date that they desire to go on a training assignment. Once a student is accepted into the program, the training assignments become a part of their academic program leading to a degree. The students must remain on the alternating pattern of training and study until they complete the two semester requirement and are released from the Cooperative Education Program by the Associate Director of the program. Students signing an agreement covering training periods are obligated to fulfill their agreement.

Students who fail to report for a training period after signing an agreement, or who fail to keep their agreement to remain with an employer to the end of a given training assignment, will receive a "U" grade and will be dropped from the program. Cooperative Education courses (COE) may not be dropped without permission from the Cooperative Education office.

Cooperative Education students will be expected to meet deadlines for registering and for paying registration fees with any exceptions brought to the attention of the appropriate administrator by the Associate Director of Cooperative Education.

Senior Placement Services

Each year representatives from business and industry, education systems, and governmental agencies throughout the United States will conduct on-campus recruiting interviews for graduating students. In addition, employers will list career employment vacancies throughout the year and request referrals of qualified candidates. Graduating students should register with the office early in their graduating year to insure the establishment of their placement credentials.

Evaluation and Testing

The Office of Evaluation and Testing serves four principal functions:

1. Admissions and Academic 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, GRE, MCAT, LSAT, and CLAST.
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. Test scoring and analysis by machine (OpScan 21 and NCS 3000) are provided.
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-wide Honors Program

For information regarding this program, refer to the Admissions and Related Matters section of this catalog.

Off-Campus Term Program

The Off-Campus Term (OCT) Program offers a program of experience-study in which students are encouraged to spend at least one semester engaged in individual educational pursuits away from the University campus. Students are offered a wide variety of opportunities for self-designed and self-implemented experience for academic credit. For example, students may become involved in social action projects, international travel or study, independent research-study, work, internship projects, or other personalized projects all off campus and all for academic credit anywhere in Florida, the U.S., or the world.

Academic credit is earned by students while engaged in off-campus activities through the OCT Program. The number of hours of credit varies according to student interest and proposed activities. Students may enroll in a variety of projects and pay fees for variable hours of credit from 1 to 15 in a term. Academic credit activities are designed around the basic off-campus experiences for the most part and projects resulting in academic credit are designed by the student and supervised by OCT or other appropriate faculty. Credits may be earned which apply toward general education and elective requirements. Credit may be earned in the major field of study in some cases.

The OCT Program has a variety of course projects designed specifically for implementation using the community and its people as the learning resource. Examples of such offerings are one to four credit hour projects (each) in (1) community studies, (2) intercultural studies, (3) law and society, (4) contemporary health problems, (5) volunteers and society, (6) international relations, (7) and three-hour volunteer work project. Participation in the OCT Program for a total of 9 hours during a Summer term or terms satisfies the summer enrollment for those affected by this requirement.

Students may participate in the OCT Program anytime beginning with the freshman year through the final semester prior to graduation. Good standing at the University and a 2.0 GPA is required for acceptance into the Program. The OCT Program operates throughout the entire year and students are urged to plan their off-campus experiences during the Fall and Spring semesters to avoid the traditional rush common to the Summer term. Early action is urged since quotas are placed on the number of participants accepted each term.

Orientation

The Orientation Office is responsible for preparing all new undergraduate students and former undergraduate students returning for their academic careers at USF. The Orientation Program is designed to provide a general orientation about the policies and procedures of USF, to provide academic advising to the students attending the Orientation Program, and to assist these students with registration. All new undergraduate students must attend an orientation program prior to the semester they enroll. Former

students returning are required to participate in the advising and registration portion of the program.

College Directed Programs

The colleges of Arts and Sciences and Business Administration administer a number of non-credit programs for the community at large. Other colleges offer specialized noncredit programs for professional development. Contact the respective college for further details about the following programs.

College of Arts and Sciences**The English Language Institute**

The English Language Institute offers intensive English as a Second Language (ESL) to non-native speakers of English. Students are given a placement test upon registering for the program. This test determines the proficiency level into which the student is placed, ranging from elementary, low-intermediate, high-intermediate, to advanced pre-university ESL.

Students attend non-credit classes five hours a day, five days a week. The curriculum includes training in English pronunciation, listening comprehension, spoken English, grammar drills, reading comprehension, and composition skills. Students who complete Advanced ESL usually score above 500 on the Test of English as a Foreign Language (TOEFL).

The English Language Institute is authorized to issue the Certificate of Eligibility (I-20) to students who require a Student Visa (F-1) and who meet criteria set forth by the United States Immigration and Naturalization Service.

The cost of the program is \$2,284.00 per semester. There is an additional non-refundable \$50.00 application fee.

For complete details, contact the English Language Institute, USF, Tampa, FL 33620, or call (813) 974-3433.

College of Business Administration**Professional Development Center**

The Professional Development Center extends the resources of the College of Business Administration to public and private sector managers through a wide variety of conferences, seminars, workshops, and short courses. The Center also offers specially tailored or custom designed in-house programs on virtually any business-related topic.

Programs are conducted by instructors drawn from the University, government, business, and professional firms who, by combining experience with knowledge, bring both the theoretical and practical into the classroom.

Additional information about the Center and its programs may be obtained by writing the Professional Development Center, College of Business Administration, USF, Tampa, FL 33620 or by calling (813) 974-4264.

COLLEGE OF ARTS AND SCIENCES

UNIVERSITY OF SOUTH FLORIDA - 1993/94 UNDERGRADUATE CATALOG

The College of Arts and Sciences consists of 35 academic departments and programs within the areas of the arts and letters, natural sciences, and social and behavioral sciences. Within the arts and letters, humanistic subjects are studied not merely for their utility, but also for their intrinsic merit and for what they tell us about what is permanently and universally significant to humanity. Students of the natural sciences are trained in the tools of logical analysis and the modes of experimentation in the continuing attempt to better understand the nature of the physical and biological universe. The social and behavioral sciences are concerned primarily with human beings, their history, individual behavior, universal institutions, and their problems. Undergraduate programs include the traditional disciplines as well as several which feature training in the application of arts and sciences theory, data, and methods to contemporary life. In all its functions the College of Arts and Sciences is dedicated to fostering a spirit of inquiry and intellectual growth.

In keeping with the ideal of a liberal arts education, the purposes of the Arts and Sciences baccalaureate curricula are to develop the intellect and provide for a well-rounded and meaningful life by exposing the student to a wide range of human inquiry in addition to the more specialized focus of the major. Every degree program in the College reflects the faculty's continuing commitment to the objectives of a liberal arts education: to instill in the graduate the abilities to think logically and open-mindedly; to approach problems analytically, rationally, and ethically; to read and evaluate critically; and to communicate clearly in speech and writing. This commitment is based on the recognition that a community of individuals so enlightened is the only means of preserving and enhancing the well being of our complex societies.

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, who are in good academic standing, 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. 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 110) 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 curricula, 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 110), College of Arts and Sciences, University of South Florida, Tampa, Florida 33620.

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. However, the College of Arts and Sciences does not permit students to count credits earned at another institution toward a degree from USF while on temporary or permanent academic dismissal from 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.

The degree program must include the completion of (1) General Distribution Requirements, (2) a departmental major plus supporting courses, (3) elective courses, (4) CLAST, (5) the writing and computation course requirements of 6A-10.30, (6) Foreign Language Requirement(s), and (7) Liberal Arts Electives Requirements (for natural sciences majors).

1. General Distribution Requirements

Six (6) hours credit in English Composition

Six (6) hours credit in Humanities/Fine Arts

Six (6) hours credit in Mathematics and Quantitative methods (For natural sciences majors this may be waived by credit in at least six hours of Mathematics courses required by the major.)

Six (6) hours credit in natural sciences

(For natural sciences majors this may be waived by credit in at least six hours of natural sciences courses required by the major.)

Six (6) hours credit in Social and Behavioral Sciences

The remaining ten (10) hours are to be divided among the last four areas at the discretion of the student and adviser. No more than eight (8) hours in any department may be counted toward the General Distribution Requirements. See General Distribution Requirement section for details.

2. The Departmental Major

A departmental major consists of a concentration of course work in a specific department plus supporting courses in related departments. The number of credit hours required for a major will vary from department to department. There must be at least a cumulative grade point average of 2.0 in the major; limited access programs, Mass Communications and Social Work, require a 2.5 GPA and a 2.75 GPA, respectively. Biology, chemistry, geology, and mathematics majors must complete at least 30 hours of letter-graded courses in the natural sciences at USF, and at least 12 hours must be applicable to the major. Majors in arts and letters and social sciences must complete a minimum of 80 hours (90 hours for Mass Communications) outside of the major department. In addition, all courses in the major program must be taken for letter grades, A, B, C, except those courses which are graded S/U only. In some of the other departments, "D" grades within the major courses are not countable toward the degree; consult departmental listings under Programs and Curricula.

3. The Departmental Minor

In order to help students develop some concentration in elective work taken in conjunction with their chosen major, the College of Arts and Sciences offers minors in the following departments/programs: Africana Studies, American Studies, Anthropology, Classics, Communication, Communication Sciences and Disorders, Criminology, Economics, English, Foreign Languages, Geography, Geology, Gerontology, History, Humanities, International Studies, Linguistics, Mathematics, Philosophy, Political Science, Psychology, Religious Studies, Sociology, and Women's Studies. In general, these require half as many hours as are required for the major. There are certain restrictions that apply to students earning a minor: (a) students who major and minor in the social sciences and arts and letters may not use courses in the major for the minor or for general distribution requirements; and (b) ISS majors may not earn a minor in any of the social and behavioral sciences incorporated in their contracts. In some departments, S/U grades within the minor curriculum are not countable. Specific requirements for the different minors appear under the departmental summaries listed under Programs and Curricula.

4. Elective Courses

Of the minimum 120 semester hours required for the degrees (124 semester hours for Mass Communications), forty (40) are normally earned in general elective courses. This number varies with the credit requirement for the major and should be treated as an average figure. A maximum of two (2) credits of physical education courses may be counted toward graduation requirements; no more than nine (9) credits from ROTC (aerospace studies, military science) may count toward graduation.

5. Liberal Arts Electives Requirements

Students who major in the natural sciences must complete the Liberal Arts Electives Requirements. This is 15 hours of courses from fine arts, social sciences, or arts and letters beyond the required University General Distribution Requirements. The student may elect any course from any of these three areas provided: (a) no more than nine (9) hours are taken in courses in any one department; (b) the courses are taken with letter grades A, B, C, D (courses taken to satisfy the University General Distribution Requirements may not be used to satisfy this requirement).

6. S/U Grades

In the College of Arts and Sciences courses having S/U grading as an option, S/U contracts must be negotiated in writing within the first three (3) weeks of the term.

A maximum of 20 hours of optional S/U credits may be counted towards the 120 hours (124 hours for Mass Communications) needed for the degrees. None of the 20 credits may be taken in the student's major unless S/U is the only grading option. Freshman English may not be taken S/U.

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, Geography, Geology, Gerontology, Government & International Affairs, History, Humanities, Independent Studies, Interdisciplinary Social Sciences, International Studies, Liberal Studies, Library and Information Science, Marine Science, Mass Communications, Mathematics, Medical Technology, Modern 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 a major in 36 fields 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 (BOE)*
Chemistry (CHM)
Classics - Latin (CLL)
Classics - Latin/Greek (CLS)
Communication (SPE)
Criminology (CCJ)
Economics (ECN)
English (ENG)
French (FRE)
Geography (GPY)
Geology (GLY)
German (GER)
Gerontology (GEY)
History (HTY)
Humanities (HUM)
Interdisciplinary Classics (ICL)

Interdisciplinary Natural Sciences:

Biology (INB)
Chemistry (INC)
Geology (ING)
Mathematics (INM)
Physics (INP)
Interdisciplinary Social Sciences (ISS) - housed in Women's Studies
International Studies (INT) - housed in Government & International Affairs
Italian (ITA)
Liberal Studies (ALA)
Mass Communications (COM)
Mathematics (MTH, MAE*)
Medical Technology (MET)
Philosophy (PHI)
Physics (PHE*, PHY)
Political Science (POL) - housed in Government & International Affairs
Psychology (PSY)
Religious Studies (REL)
Russian (RUS)
Science (SCE)*
Sociology (SOC)
Social Science Education (SSE)*
Spanish (SPA)
Women's Studies (WST)

Bachelor of Science Degree

Biology (BIO)
Botany (BOT) - housed in Biology
Chemistry (CHS)
Clinical Chemistry (CHC)
Geology (GLY)
Gerontology (GES)
Microbiology (MIC) - housed in Biology
Physics (PHS)
Zoology (ZOO) - housed in Biology

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, Classics, Communication, English, History, Mathematics, Philosophy, Political Science, and Psychology. Students interested in one of these honors programs should consult the appropriate department for further information.

Certificate 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 register as special rather than as degree-seeking students. For more information, contact the Coordinators of Advising in the College office.

Certificate in Latin American Studies

The College of Arts and Sciences offers a Certificate in Latin American Studies for students who wish to gain an intensive multidisciplinary understanding of this important area.

A minimum of 24 semester hours is required of all students seeking such a certificate. Of these, at least 14 should be planned around the following core courses or their equivalent as determined in consultation with the Coordinator:

GEA 3400	Geography of Latin America
LAH 3200	Modern Latin America
CPO 4930	Comparative Government and Politics of Selected Countries or Areas
SPN 3520	Spanish American Civilization; or equivalent in original Language.

The remaining 10 hours must be selected from other specified courses with Latin American content, a list of which is available from the Latin American Studies Coordinator.

In addition, students seeking a Certificate in Latin American Studies must have ability in Spanish, Portuguese, or another major Indo-American language or must have completed no fewer than two semesters of study in that language, or its equivalent. It is hoped that the student will develop an even higher level of competency in one language and at least a minimum proficiency in a second language.

When the student has completed the above requirements, the Latin American Studies Coordinator will recommend the student for the Certificate, which will be awarded upon the successful completion of all degree requirements for the major.

Information and advice about the certificate program may be obtained from the Latin American Coordinator. Only degree-seeking undergraduate students may earn a Certificate in Latin American Studies. The program is open to all majors in all colleges.

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 (Russian or another Slavic language (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)

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)
EUH 3571	Russian History to 1865 (4)
EUH 3572	Russian History from 1865 to Present (4)

Interdisciplinary Social Sciences-Geography-Philosophy.

Six to eight hours from the following courses:

EUS 3022	Russia (3)
GEA 3554	Geography of the USSR (4)
INR 5086	Issues in International Relations (3)
INR 3018	World Ideologies (3)
INR 3770	Comparative Military Systems (3)
PHP 4788	The Philosophy of Marxism (3)

Other courses may be substituted for those listed above upon approval of the Russian Studies coordinator.

Minor in Asian Studies

Requirements for the Minor in Asian Studies:

The minor in Asian Studies is designed for majors in any field who wish to gain a broad knowledge of a world area that is of

unique importance. Requirements are as follows:

1. 18 semester hours from the courses listed below.
2. 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.)
3. Students must declare their intention to be awarded the minor by notifying the program advisor at least one full semester prior to graduation.
4. Students who fail to achieve a cumulative 2.5 GPA or higher in the program will be denied the minor.

Courses credited toward the Asian Studies Minor:

Group A -

Art:

ARH 4530 (4) ARH 4796 (4)

Humanities:

HUM 3271 (4) HUM 3273 (4) HUM 4402 (4)
HUM 4404 (4) HUM 4405 (4)

Languages:

CHI 1120 (4) CHI 1121 (4) JPN 1120 (4)
JPN 1121 (4)

Religion:

REL 3330 (3) REL 4343 (4) REL 3350 (3)
REL 4333 (4) REL 4344 (4)

Group B -

Geography:

GEA 3703 (4)

History:

ASH 3501 (4) ASH 3404 (4)

Int'l Studies:

ASN 3012 (3) ASN 3014 (3) ISS 3930 (1-4)

Political Science:

CPO 4930 (3) CPO 5934 (3) INR 5086 (3)

Special Non-Degree Program

The HUMAN SERVICES courses are designed for students interested in careers in the human sciences and services, and may be taken in conjunction with any major or by special students. These courses are coordinated by the Department of Gerontology, and the courses are listed as:

HUS 3001 HUS 4020 SOW 4332 HUS 4100

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, Shriners' 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, optometry, podiatric medicine, and veterinary medicine. Usually these professions require four years of preprofessional preparation followed by four years of training in a professional school. A few well prepared students with exceptional qualifications may be admitted to some professional schools as early as the completion of the junior year of pre-professional work. The pre-professional programs do not meet requirements for a degree, but students should plan to also complete a degree while at USF because, while not specifying a major, professional schools prefer students with a bachelor's degree. Most pre-professional students major in the sciences because of their interests in the health sciences, and because of the considerable overlap between the pre-professional curriculum and the degree requirements for majors in the biology and chemistry departments. The College also offers two-year programs leading to the A.A. degree that prepare students for admission to pharmacy, physical therapy, and physician assistant programs. Entrance into all professional schools or programs is com-

petitive, and students should begin establishing a record of excellence with the first semester at USF. Furthermore, it is essential that students pursue courses developing a sense of understanding of cultural and humane values and basic social problems.

The College of Arts and Sciences provides academic advising in the Health Professions Advising Office. The office maintains a library of current catalogs and books on admission requirements for professional schools and is an important resource center for preprofessional students. Students considering one of the health professions should contact the College of Arts and Sciences during the first semester at USF to declare their interest in a health professions program. Students are then assigned to the Health Professions Advising Office for curriculum planning, and each semester the office provides students with updated academic records. At the time of application to professional schools, students are provided information about admission tests and the application process, and they are assisted in the process of obtaining faculty evaluations.

Pre-dental - Pre-medical - Pre-podiatry Program

This program is designed to prepare students for admission to professional schools of dentistry, medicine, osteopathic medicine, and podiatric 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:

BSC 2011C (4) BSC 2010C (4)

Chemistry:

CHM 2041 (3) CHM 3210 (4)
CHM 2045L (1) CHM 3210L (1)
CHM 2046 (3) CHM 3211 (4)
CHM 2046L (1) CHM 3211L (1)

Physics:

PHY 3053 (3) or PHY 3048 (3)
PHY 3053L (1) PHY 3048L (1)
PHY 3054 (3) PHY 3049 (3)
PHY 3054L (1) PHY 3049L (1)

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. CLEP credit usually is not acceptable to professional schools.

The following courses are recommended by some professional schools:

Biology:

MCB 3030C (4) ZOO 4693 (4) PCB 4184C (4)
PCB 3063 (3) PCB 4743C (4) ZOO 3713C (4)
PCB 3023C (4) PCB 5235C (3)

Chemistry:

BCH 3023 (3) CHM 3401 (3) CHM 3120C (4)
CHM 3400 (3)

An early admission program has been established in affiliation with the University of 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 3.4, as computed by the University of Florida; total SAT of no less than 1200, or ACT of no less than 28, or EACT of no less than 29; high school science gpa of no less than 3.0 with courses completed in both biology and chemistry; apply during the senior year of high school and be approved for admission by the College of Dentistry Admissions 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 3.2 for all courses attempted and no less than 3.0 for courses in biology, chemistry, physics, and mathematics; and completing the Dental Admissions Test with a score of no less than 15 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 Health Professions Advising Office.

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 2011C (4) BSC 2010C (4) MCB 3030C (4)

Chemistry:

CHM 2041 (3) CHM 2045L (1) CHM 2046 (3)
CHM 2046L (1) CHM 3210 (4) CHM 3210L (1)
CHM 3211 (4) CHM 3211L (1)

Mathematics:

MAC 3233 (4)
STA 3023 (4) or STA 3122 (3)

Physics:

PHY 3053 (3) PHY 3053L (1) PHY 3054 (3)
PHY 3054L (1)

The following additional courses are required by regional schools: MAC 3234, BCH 3023, PCB 4743C, PSY 2012, a psychology elective, and 8 hours of social sciences. Some schools also recommend or require ZOO 3713C, and one school also requires human anatomy and physiology with lab.

A joint program between USF and Southeastern University of the Health Sciences College of Optometry (SEUCO) 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 SEUCO. To be eligible for admission, students must meet all admissions 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. Once 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 SEUCO.

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 2011C (4) BSC 2010C (4) MCB 3030C (4)
PCB 3063 (3)

Chemistry:

CHM 2041 (3) CHM 2045L (1) CHM 2046 (3)
CHM 2046L (1) CHM 3210 (4) CHM 3210L (1)
CHM 3211 (4) CHM 3211L (1) BCH 3023 (3)

Mathematics:

MAC 3233 (4) or MAC 3311 (4)

Physics:

PHY 3053 (3) or PHY 3048 (3)
PHY 3053L (1) PHY 3048L (1)
PHY 3054 (3) PHY 3049 (3)
PHY 3054L (1) PHY 3049L (1)

It is required that students have a minimum of 80 hours including 6 hours of English with one course in composition, 6 hours of social science, 8 hours of humanities, and 7 hours of animal science courses, which must be completed at the University of Florida. Recommended courses are ZOO 3713C (4), ZOO 4693 (4), PCB 4743C (4), and MAC 3234 or MAC 3312 (4).

Pre-pharmacy Program

The College offers a two-year program to prepare students for transfer to regional colleges of pharmacy. Pre-pharmacy students must complete general education requirements and include the following science requirements:

Biology:

BSC 2011C (4) BSC 2010C (4)

Chemistry:

CHM 2041 (3) CHM 2045L (1) CHM 2046 (3)
CHM 2046L (1) CHM 3210 (4) CHM 3210L (1)
CHM 3211 (4) CHM 3211L (1)

Mathematics:

MAC 2102 (3) or MAC 2132 (4)
MAC 3233 (4) or MAC 3311 (4)

Physics:

PHY 3053(3) PHY 3054 (3)
PHY 3053L(1) PHY 3054L (1)

In addition, certain regional schools require 3 or more hours of economics, statistics, and additional hours of electives in speech or communication and social and behavioral sciences. Pre-pharmacy students should take the Pharmacy College Admission Test (PCAT) in the fall of the sophomore year and apply to pharmacy schools at that time. Some schools require a letter of recommendation from a pharmacist; therefore, students should obtain experience in the profession.

Pre-Physical Therapy Program

This two-year program prepares students for entrance into upper level physical therapy programs at Florida institutions. Pre-physical therapy students must complete general education requirements and include the following science requirements:

Biology:

BSC 2011C (4) BSC 2010C (4)

Chemistry:

CHM 2041 (3) CHM 2046 (3)
CHM 2045L (1) CHM 2046L (1)

Physics:

PHY 3053 (3) PHY 3054 (3)
PHY 3053L (1) PHY 3054L (1)

In addition, six credit hours of mathematics must be taken at the level of college algebra or higher. The following courses are required or recommended at specific institutions: STA 3023, PSY 2012, CLP 4143, SYG 2000, two semesters of human anatomy and physiology with lab (not available at USF), and a course in medical terminology (not available at USF). Students should contact universities offering physical therapy programs as early as their freshman year to arrange to attend an advisement session. Observation of physical therapists is required, and some programs require the Allied Health Professions Admissions Test.

Pre-Physician Assistant Program

A two-year program has been designed to prepare students for admission to a physician assistant program in our state. The program at the University of Florida requires completion of a minimum of 64 hours and general education requirements including psychology. The program at Southeastern University of the Health Sciences requires completion of a minimum of 60 hours, including specific course requirements in human anatomy and physiology (APB 3190), psychology, sociology, speech, and humanities or fine arts. Mathematics courses must include college algebra or a higher level course. The following courses at USF fulfill the remaining science requirements for both schools:

Biology:

BSC 2011C (4) BSC 2010C (4) MCB 3030C (4)

Chemistry:

CHM 2041 (3) CHM 2045L (1)
CHM 2046 (3) CHM 2046L (1)
CHM 3210 (4) OR CHM 3200 (4)
CHM 3210L (1) CHM 3210L (1)

To meet specific admission requirements of the University of Florida, students must complete a total of nine semester hours of humanities and nine semester hours of social sciences (including PSY 2012).

B.A. Degree for Medical and Dental Students

Students who are admitted to an approved 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 approved 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 taken 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 2011C (4) BSC 2010C (4)

Chemistry:

CHM 2041 (3) CHM 2045L (1) CHM 2046 (3)
CHM 2046L (1) CHM 3210 (4) CHM 3210L (1)
CHM 3211 (4) CHM 3211L (1)

Physics:

PHY 3053 (3)] or [PHY 3048 (3)
PHY 3053L (1)] PHY 3048L (1)
PHY 3054 (3)] PHY 3049 (3)
PHY 3054L (1)] PHY 3049L (1)

4. A minimum of 20 credits from the following courses:

Biology:

PCB 3063 (3) ZOO 4693 (4) MCB 3030C (4)
PCB 3023C (4) ZOO 3713C (4) PCB 4184C (4)
PCB 4743C (4)

Chemistry:

BCH 3023 (3) CHM 3120C (4)
CHM 3400 (3) CHM 3401 (3)

Mathematics:

MAC 3233 (4)] or [MAC 2132 (4)
MAC 3234 (4)] MAC 3311 (4)
STA 3023 (4)] MAC 3312 (4)

5. Completion of the General Distribution requirements of the College of Arts and Sciences.
6. At least 30 credit hours with letter grades earned in the natural sciences at the University of South Florida.
7. 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 podiatric 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.

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 (BOE), in Chemistry (CHE), in Physics (PHE) and in Science (SCE). 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. Departmental majors in Botany and Zoology may be found in this section of the catalog under the heading Biology. The departmental requirements of Chemistry, Geology, Mathematics, and Physics are found in this section of this catalog under the respective headings in Chemistry, Geology, 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 the College of Education Section. This major is particularly appropriate for Science Education majors (SCE).

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.

The mission of Africana Studies includes providing a basic and broad knowledge of Africa and peoples of African descent from antiquity to present. For African/African-American students, the mission of the program includes helping the students develop a greater understanding and appreciation of their heritage. Often information about this heritage has been missing or distorted in their previous educational experiences. With this knowledge, these students may be able to develop a more dignified identity and develop more ways to expand their educational, political, and economic horizons.

For white, Latino/Latina, Asian, and Native American (Indian) students, Africana Studies' mission includes assisting them also to develop a greater understanding and appreciation of the contributions and experiences of people of African descent. This includes helping these students understand the various ways cultural responses to race, especially to African and darker "races", have influenced the constructions of U.S. and world societies. Non-African/African-American students who study in the Program can acquire additional perspectives from which to view, analyze, and address contemporary relationships, social issues, and their own identities.

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 B.A. Degree

The major in Africana Studies consists of a minimum of 36 hours in the field specified as follows:

Required Core Courses (15 cr. hrs.)

AFA 2001 (3)	AFH 3200 (3)	AMH 3572 (3)
AFH 3100 (3)	AMH 3571 (3)	

Required Supporting Core Courses (minimum 6 cr. Hrs.)

AFA 4150 (3)	AFA 4335 (3)	PHM 4120 (3)
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Suggested Elective Courses (15 cr. hrs.)

AFA 4331 (3)	AML 3271 (3)	HUM 3420 (3)
AFA 4900 (2-3)	ANT 4340 (3)	INR 4254 (3)
AFA 4931 (1-3)	CPO 4204 (3)	PHI 4074 (3)
AMS 3700 (3)	CPO 4244 (3)	PUP 3313 (3)

Majors must maintain a minimum of 2.0 average and are also responsible for fulfilling College and University general education requirements.

Requirements for the Minor in Africana Studies

Africana Program offers minors in African and Afro-American Studies to meet the interest of students. Each minor consists of eighteen hours, exactly half of the upper-division credits required for a major. Requirements for the minors are as follows:

Africana Studies (Minimum of 18 hours):**Required Core Courses (9 hours)**

AFA 2001 (3)	AFH 3100 (3) or	AFH 3200 (3)
AMH 3571 (3) or	AMH 3572 (3)	

Electives (9 hours) selected from:

AFA 4150 (3)	AML 3271 (3)	INR 4254 (3)
AFA 4335 (3)	ANT 4340 (3)	PHI 4074 (3)
AFA 4931 (1-3)	CPO 4204 (3)	PUP 3313 (3)
AMS 3700 (3)	HUM 3420 (3)	

African-American Studies (Minimum of 18 hours):**Required Core Courses (9 hours)**

AFA 2001 (3)	AMH 3571 (3)	AMH 3572 (3)
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Electives (9 hours) selected from:

AFA 4150 (3)	AML 3271 (3)	PHM 4120 (3)
AFA 4331 (3)	AMS 3700	PUP 3313 (3)
AFA 4335 (3)	ANT 4340 (3)	
AFA 4931 (1-3)	HUM 3420 (3)	

African Studies (Minimum of 18 hours)**Required Core Courses (9 hours)**

AFH 3100 (3)	CPO 4204 (3)
AFH 3200 (3)	INR 4254 (3)

Electives (9 hours) selected from:

AFA 4150 (3)	CPO 4244 (3)	INR 4254 (3)
AFA 4931 (1-3)	HUM 3420 (3)	PHI 4074 (3)

■ 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 B.A. Degree in Anthropology

The major in Anthropology consists of a minimum of 33 credit hours. ANT 2000 is prerequisite to all subsequent courses. ANT 3100, ANT 3410, ANT 3511 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. ANT 3511 counts in Area IV (Natural Sciences) of the General Distribution Requirements for non-majors.

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 4542 (3)	ANT 4583 (3)	ANT 4587 (3)
ANT 4552 (3)		

Anthropological Linguistics

ANT 4620 (3)	ANT 4750 (3)
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Cultural Anthropology

ANT 4226 (3)	ANT 4316 (3)	ANT 4462 (3)
ANT 4231 (3)	ANT 4324 (3)	ANT 4495 (3)
ANT 4241 (3)	ANT 4340 (3)	MUH 4054 (3)
ANT 4302 (3)	ANT 4367 (3)	ANT 4705 (3)
ANT 4305 (3)	ANT 4432 (3)	ANT 4312 (3)
ANT 4442 (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 3511 (3)	ANT 4034 (3)
ANT 3100 (3)	ANT 3610 (3)	ANT 4935 (3)
ANT 3410 (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. 3000-level subfield courses (3-6 cr. hrs.)
ANT 3100 (3) ANT 3511 (3)
ANT 3410 (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.

BACHELOR OF INDEPENDENT STUDIES (BIS)

The Bachelor of Independent Studies (BIS) Program is available through participating state universities in Florida. The universities currently involved are the 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 of Interdisciplinary Studies consists of four study areas: the Humanities, Natural Sciences, Social Sciences and Inter-area Studies. The first three areas of study are completed through guided independent study and a resident seminar. While the seminar is of short duration, the tutorial/independent study 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 about 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, 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 or models to current issues.

Following the 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.

Seminars

Students are invited to attend seminars on the USF campus. This process is completed 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 faculty 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 selected genres of the age such as 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. Students who have completed the comprehensive exam for the study area tutorial are automatically invited to a seminar. Others become eligible with the consent of the mentor.

Undergraduate Thesis

The fourth study area or Inter-area Studies 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 the oral thesis either on campus or via teleconference at the discretion of the Committee.

Admission Procedures

Applicants to the BIS Program must qualify for admission to the University of South Florida and for admission to the External Degree 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 BIS Program. BIS applicants typically welcome the challenge of Liberal Studies and the rigor of independent study. See Financial Information Section for breakdown of credit hour fees for the BIS Program.

Mechanisms for Recognizing Prior Learning

Program policy allows for recognition of prior learning. Applicants, for example, who demonstrate sufficient competence may waive up to a maximum of two areas of guided independent study. Applications for waivers are processed after pre-enrollment procedures have been completed.

Applicants who have sufficient competence in some, but not all, of the disciplines in a study area may receive advanced placement or an abbreviated reading program, based on the individual's background and needs. This assessment is accomplished as the student relates with the mentor in the context of the tutorial.

Individuals with an A.A. degree, 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 in keeping with the applicant's background and career plans. The two designated study areas are regarded as the curriculum contract component of the "two-plus-two interface." Anyone choosing the "two-plus-two" option is ineligible to apply for waiver.

The Program is academically responsible to the Dean of the College of Arts and Sciences. The BIS Faculty Committee, in its role of overseeing the statewide and university-wide program, 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.

BIOLOGY (BIO/BOT/MIC/ZOO)

In addition to a set of basic 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. Four specific Bachelor of Science degrees (Biology, Botany, Microbiology, and Zoology) are available for students interested in the biological sciences. They are all preparatory for careers in teaching, agriculture, medicine, dentistry, marine biology, biotechnology, or for post-graduate study in any of the various life sciences. The Department attempts to schedule sequences of 5000 level courses which allow seniors in the Biology program to concentrate in such areas as: Ecology, Cell & Molecular Biology, Physiology, and Marine Biology. Students should study the requirements listed below and then make maximum use of the vigorous advising program maintained by the Department in structuring their total program. A reading knowledge of a modern foreign language (German, French, or Russian) is strongly recommended for those who intend to enter graduate school.

Requirements for the B.S. Degree

1. Department of Biology Courses

Biology Major (BIO) minimum 40 credit hours

- BSC 2010C (4), BSC 2011C (4)
- One of the following: BOT 3373 (4), MCB 3030C (4), ZOO 3203C (4)
- PCB 3023C (4)
- PCB 3063 (3)
- PCB 4043C (3) or PCB 4674 (3)
- MCB 4404C (5) or PCB 4743C (4)
- One of the following: PCB 4184C (4), ZOO 3713C (4), ZOO 4693 (4)

The remaining credits to meet the minimum requirements must come from structured departmental courses that are applicable to the major. At least eight (8) credits must be at the 4000-level or higher.

Botany Major (BOT) minimum 40 credit hours

- BSC 2010C (4), BSC 2011C (4)
- BOT 3373 (4)
- PCB 3023C (4)
- PCB 3063 (3)
- PCB 4043C (3)

The remaining credits to meet the minimum requirements must come from structured departmental courses that are applicable to the major. At least eight (8) credits must be at the 4000-level or higher.

Microbiology Major (MIC) minimum 44 credit hours

- BSC 2010C (4), BSC 2011C (4)
- PCB 3023C (4)
- PCB 3063 (3)
- PCB 4674 (3) or PCB 4043C (3)
- MCB 3030C (4)
- MCB 4115 (5)

- g. MCB 4404C (5)
- h. MCB 4505C (3)
- i. MCB 4934 (1)
- j. MCB 4652C (4) or PCB 5235C (3)
- k. BCH 3023L (2)
- l. One of the following: BOT 4434C (3), MCB 5265 (3), ZOO 5235C (4)

Zoology Major (ZOO) minimum 39 credit hours

- a. BSC 2010C (4), BSC 2011C (4)
- b. PCB 3023C (4)
- c. PCB 3063 (3)
- d. ZOO 3203C (4)
- e. PCB 4043C (3)
- f. PCB 4674 (3)
- g. PCB 4743C (4)
- h. ZOO 3713C (4) or ZOO 4693 (4)
- i. Two additional structured courses from the Zoology section of the catalog (ZOO, PCB, ENY) or BSC 3263 Marine Biology, PCB 4253 Developmental Biology, PCB 5415 Behavioral Ecology, PCB 5835C Neurophysiology, or PCB 5845 Neuroscience.

A maximum of four (4) hours of BSC 4910 (Undergraduate Research) may apply toward Biology electives for any of the degrees offered by the Department.

- 2. Supporting Courses in the natural sciences (required for all B.S. degrees, 30-34 cr. hrs.)

Chemistry

- | | |
|--------------------|---------------|
| CHM 2041 (3) | CHM 2046 (3) |
| CHM 2045L (1) | CHM 2046L (1) |
| plus the following | the following |
| two courses: | four courses: |
| CHM 3200 (4) | CHM 3210 (4) |
| CHM 3210L (1) | CHM 3210L (1) |
| | CHM 3211 (4) |
| | CHM 3211L (1) |

and BCH 3023 (3)

(NOTE: CHM 3210, 3210L, 3211, 3211L are especially recommended for biology majors considering graduate or professional schools.)

Mathematics

- MAC 3233 (4) MAC 3234 (4)
- or the following two courses
- MAC 3311 (4) MAC 3312 (4)
- or the following two courses
- MAC 3281 (3) MAC 3282 (3)

Physics

- PHY 3053 (3) PHY 3054 (3)
- PHY 3053L (1) PHY 3054L (1)
- or the following four courses
- PHY 3048 (3) PHY 3049 (3)
- PHY 3048L (1) PHY 3049L (1)

- 3. General Distribution Requirements (required for all B.S. degrees, 18 cr., assuming waivers of Areas 3 and 4). Each student is required to satisfy the General Distribution requirements of the College of Arts and Sciences. The selection of courses within the requirements is to be done in conference with Biology Department advisors.

Liberal Arts Electives

The student must satisfy 15 hours of liberal arts electives as described in item 5 of the graduation requirements of the College of Arts and Sciences.

- 5. Free Electives (including General Distribution Waivers) can be taken over and above major requirements and major electives to complete a 120-hour program.
- 6. D and F grades earned in attempting to satisfy major requirements will be used in calculating the major GPA.

TECHNICAL DEGREES WITHIN THE DEPARTMENT OF BIOLOGY

The Department of Biology offers specialized technical degrees (tracks) within the General Biology B.S. degree, emphasizing Environmental Science and Biotechnology.

The Environmental Science Tracks are designed to provide both a strong Liberal Arts education in Biology and the technical skills for active participation in resource management and conservation. These tracks are more structured than traditional degree programs and will require some additional course work (beyond 120 hrs). However, completion of the tracks will better prepare students for graduate school in any of the environmental disciplines, or for applied Biology vocations.

ENVIRONMENTAL SCIENCE TRACKS:**B.S. IN BOTANY**

Major requirements (min. 33-34 hrs.):

- BSC 2010C (4), BSC 2011C (4)
- BOT 3373 (4)
- PCB 3023C (4)
- PCB 3063 (3)
- PCB 4043C (3)
- BOT 4503 (4) or approved substitute
- BOT 4713C (4)
- BOT 5185C (4) or BOT 4434C (3) or approved substitute

B.S. IN ZOOLOGY

Major requirements (min. 33 hrs.):

- a. BSC 2010C (4), BSC 2011C (4)
- b. ZOO 3203C (4)
- c. PCB 3023C (4)
- d. PCB 3063 (3)
- e. PCB 4043C (3)
- f. PCB 4743C (4)
- g. PCB 4674 (3)
- h. PCB 5306C (4) or ZOO 5555C (4) or approved substitute

Supporting Course Requirements for both Environmental Science Tracks (min. 34-38 hrs.):

- a. CHM 2041 (3), CHM 2045L (1), CHM 2046 (3), CHM 2046L (1)
- b. CHM 3200 (4), CHM 3210L (1) or CHM 3210 (4), CHM 3210L (1), CHM 3211 (4), CHM 3211L (1)

(NOTE: CHM 3210, 3210L, 3211, 3211L are especially recommended for biology majors considering graduate or professional schools.)

- c. BCH 3023 (3)
- d. MAC 3233 (4), MAC 3234 (4) or MAC 3311 (4), MAC 3312 (4) or MAC 3281 (3), MAC 3282 (3)
- e. PHY 3053 (3), PHY 3053L (1), PHY 3054 (3), PHY 3054L (1) or PHY 3048 (3), PHY 3048L (1), PHY 3049 (3), PHY 3049L (1)

To ensure a multidisciplinary approach, the environmental science tracks require specific courses to meet the general distribution, liberal arts, and free elective requirements. These requirements are available from advisors in the Department of Biology.

BIOTECHNOLOGY TRACK: B.S.

The Biotechnology Track in Biology is designed for students planning to pursue careers in Biotechnology either upon completion of the baccalaureate or after further training at the graduate level. The curriculum provides broad emphasis in Cell Biology, Molecular Biology, and Microbiology.

1. Department of Biology

Major Requirements min. 38 hrs.

- BSC 2010C (4), BSC 2011C (4)
- plus
- PCB 3063 (3) MCB 3030C (4) PCB 3023C (4)
- PCB 4064 (3) or approved substitute
- One of the following three courses:
- PCB 4743C (4) BOT 4503 (4) MCB 4404C (5)
- Plus three from the following courses plus electives in the department, structured and applicable to the major at the 4000 level or higher to meet minimum requirement:
- MCB 4652C, PCB 5235C, CHS 4100C
- PCB 5525C, MCB 4505C

- II. Supporting Courses (min. 43-48 hrs.)
 CHM 2041 (3) CHM 2045L (1) CHM 2046 (3)
 CHM 2046L (1) CHM 3210 (4) CHM 3210L (1)
 CHM 3211 (4) CHM 3211L (1) BCH 3023 (3)
 BCH 3023L (2)
 MAC 3281 (3) or [MAC 3311 (4)
 MAC 3282 (3) or [MAC 3312 (4)
 MAC 3283 (3) or [MAC 3313 (4)
 PHY 3048-3049L (8) or PHY 3053-3054L (8)
 plus PHZ 3101(2)
 COP 3170 (3)
- III. General Distribution Requirements (Required for all B.S. Degrees, 18 cr., assuming waivers of Areas III & IV). Each student is required to satisfy the General Distribution requirements of the College of Arts and Sciences. The selection of courses within the requirements is to be done in conference with Biology Department advisers.
- IV. Liberal Arts Electives
 The student must satisfy 15 hours of liberal arts electives as described in item 5 of the graduation requirements of the College of Arts and Sciences.
- V. Free Electives (including General Distribution waivers) must be taken over and above university requirements to complete a 120-hour program.

Teacher Education Programs:

For information concerning the degree programs for secondary school teachers and junior college teachers, see the College of Education in this catalog and the USF Graduate Catalog.

Marine Biology:

The field of marine biology is especially important in Florida, and there is a good demand for trained personnel. Several faculty members in the department teach courses and conduct research in this area. Undergraduates interested in specializing in marine biology may do so by taking marine-oriented courses offered within the department. Appropriate courses include:

- BSC 3263 (Marine Biology)
- BOT 5185C (Marine Botany)
- ZOO 3203C (Introductory Invertebrate Zoology)
- ZOO 5555C (Marine Animal Ecology)

The Biology Department offers M.S. degrees and the Ph.D. degree which allow specialization in marine biology.

■ CHEMISTRY (CHS/CHM/CHC)

The Department of Chemistry offers three degrees at the baccalaureate level, Bachelor of Arts degree in Chemistry, Bachelor of Science degree in Chemistry, and Bachelor of Science degree in Clinical Chemistry, and two degrees at the graduate level, Master of Science and Doctor of Philosophy, each with specialization in the areas of analytical chemistry, biochemistry, inorganic chemistry, organic chemistry, and physical chemistry. In addition, a Master of Arts degree in Chemistry is offered as part of a carefully integrated accelerated B.A.-M.A. program. The chemistry faculty is comprised of 28 full-time faculty members, all of whom hold the Ph.D. degree. A comparable number of teaching assistants, generally graduate students enrolled in the Ph.D. program, serve as instructors in the laboratories. 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.

The Bachelor of Science degree in Chemistry (CHS) 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 curriculum for the B.S. degree meets the requirements for degree certification by the American Chemical Society.

The Bachelor of Science degree in Clinical Chemistry (CHC) offered by the Department of Chemistry, one of only a few such programs in the country, is specifically designed to train personnel for this new and growing field of the medical profession; however,

the strong scientific background and specific technical expertise provided by this program also afford the student an excellent preparation for graduate study in clinical chemistry, biochemistry, or medicine. This degree also meets American Chemical Society requirements. Interested students should see the Coordinator of the Clinical Chemistry Program in the Department of Chemistry for further information.

The Bachelor of Arts degree (CHM) provides a course of study designed for the student who does not intend to become a professional chemist but whose career goals require a thorough understanding of chemistry. Inherent in this program is a high degree of flexibility which permits tailoring a course of study to the student's own educational objectives. As such it offers considerable advantages to pre-professional students planning careers in medicine and the other health-related fields and an excellent preparation for primary and secondary school teachers of chemistry or physical science. The B.A. student whose goals change in the direction of graduate work in chemistry should supplement this curriculum by addition and/or substitution of a selection of advanced courses from the B.S. program.

The combined Bachelor of Arts-Master of Arts program is a carefully integrated, accelerated course of study and research in which an exceptionally able student can earn both degrees within five years from entry as a freshman or three from entry as a junior college transfer. The B.A. coursework is augmented, and research is undertaken continuously from the junior year onwards, so that the student who elects to exit from the program at the bachelor's level, to enter medical school, for example, can depart with a degree which meets requirements for American Chemical Society certification and with an unusually strong research background. For the student who continues into the graduate year, the M.A. program allows considerable freedom of choice among the available chemistry courses, so that the student's own preference within chemistry may be cultivated with unusual intensity. Research and coursework proceed without interruption, there being no additional admission requirements or diagnostic examinations, and the graduate degree is earned by the end of the summer of the graduate year. Upon completion of the program, the student is exceptionally well placed to continue to professional school or to further graduate work leading to the doctorate degree.

Requirements for the Baccalaureate Degrees

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, I) 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.)

1. Chemistry Courses

B.A. CHEMISTRY (CHM) (39 cr. hrs.)

CHM 2041 (3)	CHM 3210 (4)	CHM 3120C (4)
CHM 2045L (1)	CHM 3210L (1)	CHM 3400 (3)
CHM 2046 (3)	CHM 3211 (4)	CHM 3401 (3)
CHM 2046L (1)	CHM 3211L (1)	CHM 3402C (1)
CHM 3610C (4)		

Chemistry electives (3000 level or above; may include not more than one hour of CHM 4970) (6)

B.S. CHEMISTRY (CHS) (50 cr. hrs.)

CHM 2041 (3)	CHM 3210 (4)	CHM 4410 (3)
CHM 2045L (1)	CHM 3210L (1)	CHM 4411 (3)
CHM 2046 (3)	CHM 3211 (4)	CHM 4412 (3)
CHM 2046L (1)	CHM 3211L (1)	CHM 4130C (4)
CHM 3120C (4)	CHM 4060 (1)	CHM 4131C (4)
CHM 3610C (4)	BCH 3023 (3)	CHM 4610 (3)

B.S. CLINICAL CHEMISTRY (CHC) (49 cr. hrs.)

CHM 2041 (3)	CHM 3210 (4)	CHM 4410 (3)
CHM 2045L (1)	CHM 3210L (1)	CHM 4412 (3)
CHM 2046 (3)	CHM 3211 (4)	CHS 4300 (3)
CHM 2046L (1)	CHM 3211L (1)	CHS 4301L (2)
CHM 3120C (4)	CHS 4100C (3)	CHS 4302 (2-12)
BCH 3023 (3)	BCH 3023L (2)	CHS 4310C (4)

2. Supporting Courses in the natural sciences

B.A. CHEMISTRY (CHM) (22-24 cr. hrs.)

MAC 3311 (4) } or { MAC 3281 (3)
 MAC 3312 (4) } { MAC 3282 (3)
 PHY 3053 (3) } { PHY 3054 (3)
 PHY 3053L (1) } { PHY 3054L (1)

Electives (must be acceptable for credit towards a natural science major) (8)

B.S. CLINICAL CHEMISTRY (CHC) (37-40 cr. hrs.)

BSC 2010C (4) MCB 3010C (4) ZOO 2010C (4)
 PHY 4744C (3) COC 3300 (3)
 MAC 3281 (3) } or { MAC 3311 (4)
 MAC 3282 (3) } { MAC 3312 (4)
 MAC 3283 (3) } { MAC 3313 (4)
 APB 3190 (5) } or { PCB 4743C (4)
 PHY 3053 (3) } { PHY 3048 (3)
 PHY 3053L (1) } or { PHY 3048L (1)
 PHY 3054 (3) } { PHY 3049 (3)
 PHY 3054L (1) } { PHY 3049L (1)

B.S. CHEMISTRY (CHS) (20-23 cr. hrs.)

MAC 3281 (3) } or { MAC 3311 (4)
 MAC 3282 (3) } { MAC 3312 (4)
 MAC 3283 (3) } { MAC 3313 (4)
 PHY 3048 (3) } { PHY 3049 (3)
 PHY 3048L (1) } { PHY 3049L (1)

A natural science or engineering elective (3000-4000 level except PHY 3020) (3)

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 (B.A. degree) or CHM 4410 (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 also is a prerequisite to several BS degree courses.

3. General Distribution Courses

(40 cr. hrs. excluding waivers) The student is required to complete the General Distribution requirements of the College of Arts and Sciences.

4. Liberal Arts Electives

The student must satisfy 15 hours of liberal arts electives as described in item 5 of the graduation requirements of the College of Arts and Sciences.

5. Free Electives (including General Distribution waivers)

B.A. CHEMISTRY (CHM); 24 cr. hrs.

B.S. CHEMISTRY (CHS); 20-23 cr. hrs.

B.S. CLINICAL CHEMISTRY (CHC); 0-3 hrs.

In choosing elective courses students are urged to consider additional advanced courses in physics and mathematics as well as courses in the closely allied sciences such as biology and geology. 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.

Biochemistry/Biotechnology Concentration:

Both the B.A. and B.S. degrees in Chemistry provide a strong foundation for more specific preparation in Biochemistry and Biotechnology, both of which are key components of modern biomedical research and industry. B.A. and B.S. majors should complete BCH 3023, BCH 3023L and BCH 4034 in addition to the required chemistry courses listed above. Electives should include BSC 2010C, PCB 3023C and MCB 3030C. Additional useful courses to consider include PCB 5235C, PCB 5525C, ECH 5746 AND ECH 5747.

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*.

Requirements for the 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 40 rather than 39.
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 senior 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.

■ CLASSICS (CLL, CLS, ICL)

The major programs in Classics are 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 majors are of particular 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 Baccalaureate Degree

Major programs leading to the Bachelor of Arts degree are offered in Classics-Latin, Classics-Latin/Greek, and Interdisciplinary Classics. Major programs in Classics require a minimum of 36 hours of course-work. The minor is offered in Latin, Greek, and Interdisciplinary Classics. The minors consist of a minimum of 22 hours of course-work.

CLASSICS-LATIN

(Basic preparation for the Classics-Latin major: a minimum of two years of high school Latin or LAT 1120 and LAT 1121). LAT 1120 and LAT 1121 may be used to satisfy general distribution requirements but do not count as credit toward the major.

Required courses for the Classics-Latin major

24 hours selected from the following:

LNW 4363 (4)	LNW 4634 (4)	LNW 4670 (4)
LNW 4381 (4)	LNW 4644 (4)	LNW 4900 (1-4)
LNW 4500 (4)	LNW 4654 (4)	LNW 4930 (4)
LNW 4501 (4)	LNW 4660 (4)	

Supporting courses required for the major

12 hours selected from the following:

ARH 4100 (4)	CLT 3102 (3)	EUH 3402 (4)
ARH 4170 (4)	CLT 3370 (3)	EUH 3412 (4)
CLA 4103 (3)	EUH 2011 (3)	EUH 3413 (4)
CLA 4123 (3)	EUH 2012 (3)	PHP 4000 (3)
CLT 3040 (3)	EUH 3401 (4)	PHP 4010 (3)
CLT 3101 (3)		

CLASSICS-LATIN/GREEK

Required courses for the Classics-Latin/Greek major
16 hours in advanced Latin (see Classics-Latin major above) and 8 hours in beginning Classical Greek, GRE 1120, 1121.

Supporting courses required for the Classics-Latin/Greek major
12 hours selected from the list of supporting courses given for the Classics-Latin major above.

Requirements for the Latin minor

16 hours in advanced Latin (see Classics-Latin major above).

Supporting courses required for the Latin minor

8 hours selected from the following:

CLT 3102 (3)	CLT 3370 (3)	EUH 3412 (4)	EUH 3413 (4)
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Requirements for the Greek minor:

16 hours in advanced Greek.

Supporting courses required for the Greek minor

8 hours selected from the following:

ARH 4170 (4)	CLA 4103 (3)	CLT 3101 (3)
CLT 3370 (3)	EUH 3401 (4)	EUH 3402 (4)
PHH 3062 (3)	PHP 4000 (3)	PHP 4010 (3)

INTERDISCIPLINARY CLASSICS

1. Basic Preparation
Beginning Latin or Greek or high school equivalent (no major credit)
2. Required Courses
 - a. Two advanced courses in Latin or Greek.
(See Classics-Latin and Classics-Latin/Greek) (8)
 - b. Prehistoric and Ancient Art (ARH 4100) (4)
Greek and Roman Art (ARH 4170) (4)
 - c. History of Philosophy: Ancient & Medieval
(PHH 3062) (3)
Plato (PHP 4000) or Aristotle (PHP 4010) (3)
 - d. Classical Mythology (CLT 3370) (3)
 - e. Two courses from:
 - Ancient History I (EUH 2011) (3)
 - Ancient History II (EUH 2012) (3)
 - Classical Greece (EUH 3401) (4)
 - Age of Alexander (EUH 3402) (4)
 - Roman Republic (EUH 3412) (4)
 - Roman Empire (EUH 3413) (4)
 - f. One course from:
 - Ancient Civilizations (CLA 3000) (4)
 - Greek Civilization (CLA 4103) (3)

Roman Civilization (CLA 4123)	(3)
Egyptian Civilization (CLA 4160)	(3)
Mesopotamian Civilization (CLA 4171)	(3)
Greek Literature in Translation (CLT 3101)	(3)
Roman Literature in Translation (CLT 3102)	(3)
New Testament Greek I (GRE 3040)	(3)
New Testament Greek II (GRE 3041)	(3)
	(38-41 Hours)

Requirements for the Interdisciplinary Classics Minor

1. One year of Latin or Greek at the University level.
(LAT 1120, LAT 1121, or GRE 1120, GRE 1121) (8)
 2. One course in Art History (4)
 3. One course in Ancient Philosophy (3)
 4. Classical Mythology (3)
 5. One course in Ancient History (3)
- (21 Hours)

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. Passing the Honors Examination at the end of the senior year.

COMMUNICATION (SPE)

Both a major and a minor are available in Communication. Each option offers the student the opportunity to develop a program consistent with personal and professional goals. In addition to core requirements, the department encourages students to tailor communication study to meet their own interests. Communication study focuses on the unity of theory and practice in human communication, and is aimed at helping students apply their knowledge of communication within both their personal and professional lives.

Requirements for the B.A. Degree in Communication

A major in Communication requires a minimum of 33 credit hours from departmental offerings (excluding SPC 2023, to be completed as part of the general education requirements, and excluding LIS 2001 and ENC 3310). No more than 18 hours of Communication courses completed prior to the declaration of major will be counted toward the major. No more than six hours will be allowed toward the minimum hours for the major from Directed Reading and Undergraduate Research courses combined. Except under unusual circumstances, students must achieve a "C" or higher in each core course the first time it is taken; students who earn a "D" or "F" in a core course will not be eligible for graduation as a Communication major. Students can have only one core course with a grade below "C" forgiven under the University's Forgiveness Policy. A grade of "D" as a final grade within a departmental course will not be counted toward a Communication major or minor. Courses may not be taken S/U where a grade option exists. The requirements for the Communication major are:

1. Prerequisites (to be completed not later than the first semester after declaration of major, or at earliest date offered)

SPC 2023	Fundamentals of Human Communication	(3)
LIS 2001	Use of the Library	(3)
ENC 3310	Expository Writing	(3)

2. Core Requirements (to be completed not later than the second semester following declaration of major or at earliest date offered, unless otherwise indicated) 12 hours

SPC 3210 Communication Theory (3)
SPC 3230 Rhetorical Theory (3)

ORI 3000 Introduction to Communication
as Performance (3)

SPC 3601 Advanced Public Speaking (3)

3. Electives: Three options are available for completing the additional requirements for the major.

a. Option One - Students will select a minimum of 21 hours of additional coursework from departmental offerings consistent with individual areas of interest. Students are encouraged to work closely with a departmental adviser in selecting these elective hours from among the three departmental areas: Communication Studies, Rhetorical Studies, and Performance Studies, to develop individual programs to fulfill the major requirements.

b. Option Two - Option Two is a program based on a thematic plan created by the student in consultation with an adviser, and approved by the Chair of the Department and by the Undergraduate Committee. The requirements for a thematic plan proposal are available in the department office. At the time the student declares this option, the student must have completed no fewer than 60 total hours, and no more than 12 hours in Communication. The student must have and maintain a 3.0 overall and departmental GPA. This option requires a minimum of 24 hours of departmental electives. Students must select a minimum of 15 hours from within one of the three areas of departmental concentration. In addition, a minimum of six hours of departmental courses from outside the area of concentration is required. The student must also complete SPC 4932, Senior Seminar. An additional six hours in approved, related coursework outside the department is also required (normally, this coursework is taken subsequent to the approval of the thematic plan).

c. Option Three - The Honors Program provides an opportunity for a select group of undergraduate majors in Communication to engage in an intensive research experience. Each Honors student is required to complete and defend an undergraduate Honors Thesis. Application for the program ordinarily will take place during the second semester of the student's junior year or prior to completion of 90 semester credits. Admission to the program is competitive and based on the student's overall academic record, performance in communication courses, and recommendations of faculty in the Communication Department. Information regarding admission to the Honors Program (including requirements, applications, and procedures) as well as the program completion requirements is available from the Department office.

Requirements for the Minor in Communication

The minor in Communication is available to supplement majors in a variety of departments and colleges in the University. The minor in Communication requires 18 hours of departmental coursework (in addition to SPC 2023). Directed Readings, Undergraduate Research, and Internship may not be counted toward the 18-hour requirement. Courses may not be taken S/U. The requirements for a minor in Communication are:

1. Prerequisites: SPC 2023
2. Core Requirements: Same as in Major (2 above)
3. Departmental Electives: 6 hours

COMMUNICATION SCIENCES AND DISORDERS (ISH, ISA)

Undergraduate concentrations in the Communication Sciences and Disorders are available through the program of Interdisciplinary Social Sciences (ISS). Concentrations in Speech-Language-Hearing Science and American Sign Language 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 or Audiologist. 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. 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 and in Audiology, including Deaf Education, as well as a Ph.D. specialization in Speech, Language, or Hearing 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 2011 or ANT 3511 or an equivalent life science;
2. Recommended Courses
LIN 3010 or LIN 3801 or CGS 3060
Courses in this category should 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 3122 (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 in order to provide guidance in academic planning.

The course of study is:

SPA 3002 (3) SPA 3310 (3) SPA 4363 (3)

SPA 3011 (3) SPA 4050 (3) SPA 4562 (3)

SPA 3030 (3) SPA 4201 (3) SPA 4930 (3)

SPA 3101 (3) SPA 4210 (3)

SPA 3112 (3) SPA 4222 (3)

SPA 3380 (3) and SPA 3380L (1) (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.)

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, including 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.

General admission requirements, recommended admission requirements, and ISA requirements 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 all required:

SPA 3002 (3) SPA 3030 (3) SPA 3310 (3)
 SPA 3380 (3) and SPA 3380L(1) SPA 4332 (3)
 SPA 4363 (3)
 SPA 4382 (3) and SPA 4382L (1)
 SPA 4383 (3) and SPA 4383L (1), SPA 4930 (3)
 Other electives (6).

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 either ISH or ISA. 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.

■ 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 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.

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 of the major.

Requirements for the Baccalaureate Degree:

A minimum of 39 semester hours is required of all undergraduate majors in criminology including the following courses or their equivalents:

CCJ 3020 (3) CCJ 4501 (3)
 CCJ 3210 (3) CCJ 4360 (3)
 CCJ 3610 (3) CCJ 3621 (3)
 CCJ 3701 (3) CCJ 4700 (3)
 CCJ 4934 (3) CCJ 4110 (3)

In addition to the above, a minimum of 12 hours in criminology must be selected by the student to complete the requirements.

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 electing criminology as their major will be required, moreover, to take a minimum of 27 credits 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.

Requirements for a Minor in Criminology

The Department of Criminology offers a minor in Criminology. The minor will consist of three required courses (CCJ 3020, 3210, 3610) totalling 9 credit hours, and the selection of two of the

following 3 hour courses (CCJ 4110, 4360, 4501, 4604) for a total of 15 hours. Students must receive approval from the Department prior to starting their minor work. A minimum of 8 hours must be completed at USF. Students minoring in Criminology will be subject to the Department's "2 D" Rule.

■ ECONOMICS (ECN)

Economics offers a clear, logical way of thinking about complicated contemporary societal issues such as unemployment, inflation, pollution, and crime. The department offers two major programs. Option I, by offering broad choices, allows students to tailor their programs to provide training for careers in business, teaching, or government service. It is also excellent preparation for graduate or professional education in social science, business, or law. Option II, by offering the student continuing concentration in price theory, aggregate economics, mathematical economics, and econometrics prepares students for graduate education in economics. The department also offers a Minor program open to students throughout the University.

Students interested in majoring or minoring in economics should contact the undergraduate academic advisor in the Department of Economics for more information about the program.

Requirements for the B.A. Degree:

A student may earn a Bachelor of Arts degree with a major in Economics by completing satisfactorily 33 credits in Economics in addition to college requirements. These 33 credits include:

Courses required for both Option I and Option II (18 hours).

ECO 2013 (3) ECO 2023 (3) ECO 3101 (3)
 ECO 3203 (3) QMB 2150 (3) QMB 3200 (3)

Students must obtain a grade of "C" or higher in ECO 3101, Intermediate Price Theory, in order to enroll in any course for which ECO 3101 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. Economics majors working at the regional campuses cannot expect to fulfill all economics course requirements at those campuses.

Option I

Additional 15 hours upper-level economics courses (to ensure broad coverage students must include at least one course from each of groups A, B, and C in their programs). At least 9 of the 15 hours of additional upper-level economics courses must be in courses for which either ECO 3101 or ECO 3203 is a prerequisite. These courses are marked with an asterisk.

Group A (at least 3 hours) selected from: ECO 3622, ECP 3413, ECP 3613, ECP 4232, ECS 3013

Group B (at least 3 hours) selected from: ECO 4303*, ECO 4323, ECP 4451*, ECS 4003

Group C (at least 3 hours) selected from: ECO 3703*, ECO 4504*, ECO 4213*, ECP 3203*, ECO 4935 (Selected Topics - *Industrial Organization)

Option II

Required Economics courses (12 hours):

ECO 4935 Selected Topics-Advanced Price Theory

ECO 4935 Selected Topics-Advanced Aggregate Economics

ECO 4401 Mathematical Economics

ECO 4935 Selected Topics-Introduction to Econometrics

Additional upper-level economics course (3 hours)

Students majoring in economics are encouraged to supplement their programs with appropriate courses in other social sciences. Political science, psychology, sociology, and others contribute to an enriched plan of study. Several courses in economics are designed to permit students majoring in other disciplines to acquire the skills and insights provided in economics.

Requirements for a Minor in Economics

Students majoring in social sciences, as well as students from other colleges, may minor in economics. Total requirements are:

1. A minor must include these four courses in basic economics:
 ECO 2023 Economic Principles: Microeconomics (3)

- ECO 2013 Economic Principles: Macroeconomics (3)
 ECO 3101 Intermediate Price Theory (3)
 ECO 3203 Intermediate Income & Monetary Analysis (3)
- In addition, a minor must include two or more upper level courses taught in the Economics Department (excluding the variable credit courses ECO 4905 and 4914), bringing the total credit hours in economics to a minimum of 18. QMB 3200, Business and Economic Statistics II, or its equivalent, is acceptable for credit in a minor.
 - Before being recognized as a minor in economics, a student must obtain approval by the advisor in the Economics Department of the courses involved in the student's minor program.
 - A grade point average of 2.0 or better must be achieved in the minor coursework for a student to be certified for graduation with a minor in economics.
 - At least 12 of the required 18 credits must be taken in residence at USF.

■ 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:

- 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.
- 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 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 with appropriate AP English credit.

Requirements for the B.A. Degree

The program in English provides options in English and American literature, creative writing, and professional and technical writing. The literature option covers the major periods of literature in English. The creative-writing option includes training in writing and coverage of English and American literature. The professional and technical writing option combines the study of literature with an introduction to 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 whose courses do not equate with those at USF will be required to earn approximately the same number of hours as those who take their whole major here.

OPTION I: English and American Literature.

Eleven courses (33 hrs.) as follows:

- Both of the following:
 AML 3031 AML 3032
- Four of the following:
 ENL 3015 ENL 3273 ENL 3230
 ENL 3250 ENL 3331 or ENL 3332 or
 AML 4300 for students with a special interest in American Literature

- Five of the following, at least two of which must be at the 4000 level:

AML 3051	AML 3271	AML 4101
AML 4123	AML 4261	AML 4300
ENG 3105	ENG 3114	ENG 4013
ENG 4060	ENL 3015	ENL 3230
ENL 3250	ENL 3273	ENL 3331
ENL 3332	ENL 4122	ENL 4132
ENL 4171	ENL 4303	ENL 4311
ENL 4338	ENL 4341	LIN 4340
LIN 4370	LIT 3022	LIT 3073
LIT 3101	LIT 3102	LIT 3144
LIT 3374	LIT 3410	LIT 3716
LIT 4011	LIT 4930	

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.

- FICTION OPTION (33 hrs.)**

All of the following:

CRW 3111	CRW 3112	CRW 3121
CRW 3311	CRW 4120	

Note: Except for CRW 3311, the courses above must be taken in sequence. CRW 3311 may be taken at any time after CRW 3111 is completed.

Additional course requirements:

The student must select six literature courses from those listed in OPTION I. Two courses must be from group "1," two more from group "2," and one from group "3." At least two of the courses must have either an ENL or LIT prefix.

- POETRY OPTION (33 hrs.)**

All of the following:

CRW 3111	CRW 3311	CRW 3312
CRW 3321	CRW 4320	

Note: Except for CRW 3111 the courses above must be taken in sequence. CRW 3111 may be taken at any time after CRW 3311 is completed.

Additional course requirements:

Same as for the Fiction Writing option above.

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.

- Composition requirements:**

Five of the following:

CRW 2100	ENC 4260	ENC 3210
ENC 4311	ENC 3213	ENC 4931
ENC 3310		

- Literature requirements:**

The student must select seven literature courses from those listed in OPTION I as follows:

Two courses from group "1," four courses from group "2," and one course from group "3."

Requirements for the Minors in English English and American Literature Minor (15 hours)

- One of the following:**

AML 3031	AML 3032
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- Two of the following:**

ENL 3015	ENL 3230
ENL 3250	
ENL 3273	ENL 3331 or ENL 3332

3. One course at the 4000 level
4. One additional 3000- or 4000-level course with AML, CRW, ENC, ENL or LIT prefix

Creative Writing Minor (15 hours)

1. Either Form and Technique of Fiction (CRW 3111) and Fiction I, II, and III (CRW 3112, 3121, 4120) or Form and Technique of Poetry (CRW 3311) and Poetry I, II, and III (CRW 3312, 3321, 4320).
2. One AML or ENL course at the 3000 or 4000 level.

Professional and Technical Writing Minor (15 hours)

1. ENC 3210
2. ENC 4260
3. One AML or ENL course
4. Two of the following courses:
 CRW 2100 ENC 3213 ENC 3310
 ENC 4311 ENC 4931

English Honors Program

The Department of English Honors Program will provide a carefully selected group of seniors with:

- A. Closer contact with faculty tutors than students in the regular majors program;
- B. An opportunity to work and exchange ideas in the stimulating environment of a small group of fellow students with similar aims and abilities;
- C. An opportunity to develop individual initiative and sophisticated critical skills.

The English Honors Program will benefit those interested in graduate work, advanced professional study, or those interested in accepting a greater intellectual challenge.

Admissions Criteria

Sophomores and Juniors applying to the honors program will be encouraged to sign up for a special section of ENC 3310 (Expository Writing). This Gordon Rule course will emphasize the writing of critical and analytical prose and provide an intellectually rigorous introduction to the study and uses of classical and modern rhetoric.

Students may apply for the program after completing 80 hours of course work (90 before actual admission). Applicants should have a GPA of 3.5 in the major as well as in other course work and should submit letters from two English faculty supporting their applications.

In addition they should have completed – or be in the process of completing – at least four of the six survey courses required for the English Literature major. They should complete all remaining survey courses during their senior year. After screening all applications, the department's Honors Committee will interview all eligible applicants before selecting no more than twelve to participate in each year's program.

Requirements for Completion of Departmental Honors

1. The Honors student will complete Parts 1 and 2 of the Literature major as described in the current catalogue. He/she will also take at least two courses from Part 3.
2. The student will take two (three-hour) Honors seminars during the first semester of his/her senior year. One seminar will introduce the student to various theories and practices of literary criticism. The other, by examining either a literary genre or a maximum of three authors, will provide the student with significant and concentrated study. Both courses should help the student in selecting a topic for his/her Honors thesis.
3. During the second semester of the senior year, the Honors student will enroll for three thesis hours. The instructors of the first semester's seminars will serve as instructors of record for the thesis seminar and as readers of all honors theses. The student will choose a member of the faculty to serve as the third reader of his thesis. The student must satisfy the following requirements:
 - a. Complete both honors seminars with a 3.5 GPA;
 - b. Complete all remaining major requirements and remaining academic course work with an overall GPA of 3.5 in both areas;

- c. Submit an acceptable thesis to the Departmental Honors committee.

4. The student who completes all requirements above will graduate with honors in English. The credit hours completed within the program by the student who does not complete all honors requirements will of course count toward the baccalaureate degree.

The honors committee will disqualify any student from the program who does not complete the Honors seminars with at least a 3.5 GPA.

Honors students failing to complete a thesis within two years after acceptance into the program will be notified by the Honors Committee of their dismissal from the program.

■ GEOGRAPHY (GPY)

The degree program in Geography provides options in Environmental Studies, Urban Studies, and General Geography. The Environmental Studies option focuses on major environmental systems including the geosphere, hydrosphere, atmosphere, pedosphere, and biosphere. Particular emphasis is put on the human modification of the natural environment and the global interconnections of the major earth systems. The Urban Studies option focuses on the social and spatial effects of the growth of cities, both in advanced industrialized as well as in underdeveloped countries. Issues such as the historical evolution of urban form and function, land-use changes and conflicts, economic restructuring and the growth and decline of inner-cities, and urban racial and ethnic relations are examined. The General Geography option offers instruction in a broad range of topics in geography, both physical and human.

Requirements for the Baccalaureate Degree

A major in geography consists of 37 credit hours as follows:

Required core courses (21 credit hours):

GEO 3013 (4) GEO 4100C (4) GEO 4900 (1)
 GEO 3402 (4) GEO 4114C (4)

Plus one course with a GEA prefix (4)

Supporting Courses (16 credit hours): Students may select Option 1 (Environmental), Option 2 (Urban), or Option 3 (General).

Option 1: Environmental Studies

In addition to required Geography core courses, students in Option 1 select:

Required: GEO 4372 (4) and

Two of the following (8 credit hours):

MET 4002 (4) GEO 4200C (4) GEO 4280C (4)
 MET 4010C (4) GEO 4210 (4)

Any additional 4 credit hours in Geography excluding:

GEO 3901 GEO 4900
 GEO 3931C GEO 4910

Option 2: Urban Studies

In addition to required Geography core courses; students in Option 2 select:

Required: GEO 3602 (4) and

Two of the following (8 credit hours):

URP 4052 (4) GEO 4502 (4) GEO 4604 (4)
 GEO 4470 (4) GEO 4700 (4)

Any additional 4 credit hours in Geography excluding:

GEO 3901 GEO 4900
 GEO 3931C GEO 4910

Option 3: General Geography

In addition to required Geography core courses, students in Option 3 select:

One of the following (4 credit hours):

MET 4002 (4) GEO 4210 (4)
 MET 4010C (4) GEO 4280C (4)

One of the following (4 credit hours):

GEO 3602 (4) GEO 4460 (4) GEO 4604 (4)
 GEO 4421 (4) GEO 4470 (4) GEO 4700 (4)
 GEO 4440 (4) GEO 4502 (4)

Any additional 8 credit hours in Geography excluding:

GEO 3901 GEO 4900
 GEO 3931C GEO 4910

Requirements for the Minor

A minor in Geography consists of 16 credit hours, with a minimum grade-point average of 2.0. The required courses are:

GEA 3000 (4) GEO 3013 (4) GEO 3402 (4)

One upper level elective (GEA, GEO, MET, or URP 3000-5000 level) (4).

■ GEOLOGY (GLY)

The Department of Geology offers programs leading to the Bachelor of Arts or Bachelor of Science degree, and to a Master of Science degree. Geology is one of the broadest of all 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 or government agencies. The Environmental Geology track is designed for the student interested in the growing 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 B.A. Degree

1. **Geology Courses** (32 sem. hrs.)
 GLY 2010 (3) GLY 3200 (4) GLY 4550 (4)
 GLY 2010L (1) GLY 3400C (4) GLY 4551 (4)
 GLY 2100 (3) GLY 3610 (4)
 GLY 2100L (1) GLY 4310 (4)
2. **Supporting Courses** (22-28 sem. hrs.)
 - a. CHM 2041 (3) CHM 2046 (3)
 CHM 2045L (1) CHM 2046L (1)
 - b. One year of calculus (MAC 3233, 3234 or 3311, 3212, or 3281, 3282). STA 3023 may be substituted for one semester of calculus.
 - c. Two courses in biology or physics selected from:
 BSC 2010C (4) BOT 2010C (4)
 PHY 3053-3053L (4) or PHY 3048-3048L (4)
 PHY 3054-3054L (4) or PHY 3049-3049L (4)
3. **General Distribution Courses** (40 sem. hrs. excluding waivers.) The student is required to satisfy the General Distribution requirements of the College of Arts and Sciences.
4. **Liberal Arts Electives**
 The student must satisfy 15 hours of liberal arts electives as described in item 5 of the graduation requirements of the College of Arts and Sciences.
5. **Free Electives** (including Distribution waivers) (29-35 sem. hrs.)
6. D and F grades earned in attempting to satisfy major requirements will be used in calculating the major GPA.

Requirements for the B.S. Degree

1. **Geology** (32 sem. hrs.)
 GLY 2010 (3) GLY 3200 (4) GLY 4341 (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)

and 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 3281 (3)	MAC 3311 (4)
MAC 3282 (3)	MAC 3312 (4)
PHY 3048 (3)	PHY 3049 (3)
PHY 3048L (1)	PHY 3049L (1)

4. General Distribution Courses (40 sem. hrs. excluding waivers.) The student is required to satisfy the General Distribution requirements of the College of Arts and Sciences.**5. Liberal Arts Electives**

The student is required to complete the liberal arts electives as described in item 5 of the graduation requirements of the College of Arts and Sciences.

6. Free Electives (Including Distribution Waivers) 19-25 sem. hrs.

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
GLY 2010L	GLY 2100L	CHM 2045L	CHM 2046L

in the freshman year and to seek curriculum counseling with a Geology advisor.

7. D and F grades earned in attempting to satisfy major requirements will be used in calculating the major GPA.**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.

■ 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 in the field of aging will work to sustain or improve the quality of life of older persons. To this end the Department offers the degrees of Bachelor of Arts in Gerontology, Bachelor of Science in Gerontology, and Master of Arts in Gerontology.

Requirements for the B.A. Degree

The Bachelor of Arts Degree in Gerontology entails 37 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 are undecided about their eventual career goals in aging or who plan to pursue graduate work in gerontology or

some other field.

Required Courses:

GEY 3000 (3)	HUS 4020 (4)	GEY 4640 (3)
HUS 3001 (3)	GEY 4327 (3)	GEY 4935 (3)
GEY 3601 (3)	GEY 4360 (3)	GEY 4945 (6)
GEY 3625 (3)	GEY 4401 (3)	

A required prerequisite is STA 3122.

Requirements for the B.S. Degree

The Bachelor of Science Degree in Gerontology is a 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 3112 (3)	GEY 4329 (3)	MAN 3025 (3)
GEY 3601 (3)	GEY 4340 (3)	MAN 3240 (3)
GEY 4327 (3)	GEY 4640 (3)	MAN 3301 (3)
GEY 4328 (3)	GEY 4645 (8)	

Prior to taking the courses required in the major, students must complete the following twelve (12) hours of prerequisites: ACG 2001, ACG 2011, CGS 2000, and GEY 3000.

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.

The gerontology prerequisite can only be satisfied by a student's having taken GEY 3000 at this university or its equivalent at another institution. The prerequisites of accounting can be fulfilled by taking ACG 2001 and ACG 2011 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 fields such as social work, communication disorders, health care, mental health care, and rehabilitation counseling. This minor may be taken in conjunction with any undergraduate major, but it should be particularly beneficial to persons majoring in such disciplines as anthropology, communications sciences and disorders, government and international affairs, nursing, psychology, rehabilitation counseling, social work, and sociology. Requirements for the minor in Gerontology are a total of 16 hours of the following upper-level courses:

GEY 3000 (3)	GEY 3625 (3)	HUS 4020 (4)
GEY 3601 (3)	GEY 4360 (3)	

■ GOVERNMENT AND INTERNATIONAL AFFAIRS (GIA)

The Department of Government and International Affairs includes programs in International Studies, Political Science, and the Public Administration. Its goal is to provide students the opportunity to study the nature of government and politics 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.

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 3080 (3) INR 3082 (3) INR 4936 (3)
plus one topical and one area studies course chosen from the INT upper division electives. The core courses should be taken in the order indicated, beginning with INR 3003. Students may take INR 3080 and INR 3082 simultaneously.

The additional 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 or who can translate with facility from 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 adviser who is empowered to make appropriate substitutions when educationally justified.

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 3080 (3) INR 3082 (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 advisor, who is empowered to approve 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 Baccalaureate Degree

Students who earn a B.A. degree in political science should be able to relate knowledge from their major field to other allied disciplines as well as being well-grounded in political science. In fact, it is impossible to understand fully and to explain political events and behavior without some knowledge of history, economics, sociology, and other related fields. To aid and encourage political science majors in this endeavor, students must take a minimum of 18 hours in courses from among history, economics, anthropology, geography, sociology, psychology, philosophy, or

other approved Social Sciences. Six hours must be in history, three in economics, and nine from the remaining fields. Six of the eighteen hours must be taken at or above the 3000 level.

A minimum of 36 credit hours is required to satisfy the requirements of the major. Students must take the 12 credit hours of required coursework 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 exception may be granted by the Chair for students with a GPA between 2.70 and 2.99).

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, in order to satisfy the requirements of the major.

The undergraduate curriculum in political science is composed of the following:

Required Core Courses (12 cr. hrs.)

CPO 3002 (3) or INR 3002 (3)
POT 2041 (3) POS 3003 (3) POS 3713 (3)

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.

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) POT 4064 (3) POT 5626 (3)
POT 4054 (3) POT 4204 (3)

Field II Comparative Government and Politics

CPO 4034 (3) CPO 4930 (3) CPO 5934 (3)

Field III International Relations

INR 3102 (3) INR 4334 (3) INR 4502 (3)
INR 4035 (3) INR 4403 (3) INR 5086 (3)

Field IV American National and State Governments

POS 2112 (3) POS 3273 (3) POS 4413 (3)
POS 3173 (3) POS 3453 (3) POS 4424 (3)
POS 3182 (3) POS 4204 (3) POS 5094 (3)

Field V Urban Government and Politics

POS 3142 (3) POS 4165 (3) URP 4050 (3)
POS 3145 (3) POS 5155 (3)

Field VI Public Policy

INR 3102 (3) POS 3145 (3) PUP 5607 (3)
INR 4334 (3) PUP 4323 (3) URP 4050 (3)

Field VII Law and Politics

INR 4403 (3) POS 3691 (3) POS 4624 (3)
POS 3283 (3) POS 4614 (3) POS 4693 (3)

The following courses are not included within any of the seven fields, but may still be used as elective hours:

PAD 3003 (3) POS 4936 (3) PAD 4204 (3)
POS 4941 (3) POS 4905 (1-3) POS 4970 (3)
POS 4910 (1-3) POS 3931 (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 3002 (or INR 3002), POS 2041, and POT 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. Admission to the honors sequence, which is available to all undergraduate majors, will be controlled by grade point average, personal interviews and close scrutiny of the student's program and record. Students admitted will write an honors thesis, POS 4970 (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; Field VII of the undergraduate curriculum (Law and Politics). 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.

(Pre-law is not a prescribed program of study. No specific college major is required for admission to law school. Those students intending to pursue the study of law must obtain a Bachelor of Arts degree in an arena of personal choice. It is generally agreed that knowledge and understanding of the political, economic, and social context within which legal problems arise facilitate a career in law.)

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 3002 Introduction to International Relations
CPO 3002 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, non-profit 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
- PAD 5836 Comparative Public Administration

For further information, please contact the Public Administration Program.

■ HISTORY (HTY)

Requirements for the B.A. Degree

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. It is recommended that history majors take ENC 3310, "Advanced Expository Writing," SPC 2023, "Fundamentals of Speech Communication," LIS 2001, "Use of the Library," and additional hours drawn from the following disciplines: African and Afro-American Studies, American Studies, Anthropology, Economics, Geography, Political Science, Interdisciplinary Social Sciences, Psychology, Philosophy, Sociology, 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.

Requirements for the Honors Program

The department's honors program challenges the superior student to achieve academic excellence through individual research and individualized instruction. Admission to the program will be competitive. A maximum of 15 students per year will be selected. They must meet the following criteria: 20 hours (at least 8 at USF) of history courses (3.5 GPA or better), 75 hours total course work (3.3 GPA or better), and recommendation by a USF history faculty member. Honors students will be assigned faculty advisors who will guide their research and the writing of an honors thesis. Students will also participate in an Honors Colloquium. Students interested in the program should contact the departmental undergraduate advisor for details of this demanding and rewarding program.

Requirements for the Minor

The Department of History offers two options for students interested in the minor in History. Option one requires four history courses (at least 15 hours) at the 3000 and 4000 levels drawn from a minimum of three of the following fields: a) Ancient; b) Medieval; c) Modern European; d) United States; e) Non-Western; Latin American, Asian, African. Option two entails a 15-hour program organized and contracted by the student and the department around the specific needs of the student's major program. In both plans, 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. Certification of the minor will be supervised by the department. Students interested in a minor in history are encouraged to see the History department advisor as early in their undergraduate program as possible.

■ HUMANITIES (HUM)

The Department of Humanities includes programs in humanities and american studies. The Department 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.

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 B.A. Degree in Humanities:

The curriculum for the Humanities major comprises interdisciplinary courses in the verbal, visual and musical arts of specified periods and cultures. Course requirements are as follows:

1. 28 credits among 4000 level Humanities courses, with the option of substituting two courses (a maximum of eight credits) from 3000 level Humanities courses.
2. Humanities 4931, Seminar in Humanities, four credit hours.
3. Two or more classes in the creative or performing arts, either lower or upper level, totaling at least four semester hours.

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 at the 3000 level. No Humanities courses at the 1000 or 2000 level may be used to fulfill the minor requirement.

AMERICAN STUDIES (AMS)

The American Studies major is designed for those students interested in studying the relationships between and among the important elements which shape and identify American Civilization. American Studies is a multidisciplinary program which draws, in addition, upon a variety of courses from outside the program and outside the college.

Requirements for the B.A. Degree in American Studies:

36 credit hours, including AMS 3001, AMS 3210, AMS 4935, AMS 4936, either AMS 3201 or AMS 3230, a minimum of 8 additional credit hours in other AMS courses and a minimum of 8 additional elective hours selected from AMS and/or related disciplines in consultation with the Undergraduate Director.

Requirements for the Minor in American Studies:

18 credit hours, including AMS 3001 and a minimum of 8 credit hours of other AMS courses plus a minimum of 6 additional elective hours selected from AMS and/or related disciplines in consultation with the Undergraduate Director.

■ INTERDISCIPLINARY NATURAL SCIENCES (INB/INC/ING/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. 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 that item 2 of the requirements is altered as follows:

- 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 hours 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 natural sciences majors only completion of a minimum of 45 credit hours in natural sciences courses applicable to the natural science majors. In these hours 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:

BSC 2010C (4)
 BSC 2011C (4)
 CHM 2041 (3) CHM 2046(3)
 CHM 2045L (1) CHM 2046L(1)
 MAC 3233(4) or [MAC 3311(4)] or [MAC 3281(3)]
 MAC 3234(4) or [MAC 3312(4)] or [MAC 3282 (3)]

PHY 3053 (3) } or [PHY 3048 (3)
 PHY 3053L (1) } [PHY 3048L (1)
 PHY 3054 (3) } [PHY 3049 (3)
 PHY 3054L (1) } [PHY 3049L (1)
 GLY 2010 (3)
 GLY 2010L (1)
 GLY 2100 (3) GLY 2100L (1)

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.

■ LIBERAL STUDIES (ALA)

The Liberal Studies Degree is conceived to fulfill the intent of the traditional Liberal Arts degree and is offered for students who require a broad academic approach for realization of their conceived academic or pre-professional goals.

For admission to the program, the students must (1) have a minimum of 20 (to a maximum of 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 explaining the student's special academic circumstances and goals for which this major is appropriate. This proposal must be approved by a faculty committee of three professors (Chair to be selected by the student) to be assembled by the student and the Director in the Dean's Office.

The student must complete the General Distribution Requirements (and all other university requirements), and a minimum of 4 semesters of one foreign language. Of the remaining 64 hours, 50 semester hours will be devoted to interdisciplinary study in the College of Arts and Sciences. Ideally, the 50 hours will include courses in the sciences, letters, and social and behavioral sciences. In the student's last semester, a senior paper must be approved by the faculty committee.

When admitted to the program, the student will formulate, in collaboration with the faculty committee, a program of studies to be pursued toward his/her particular academic goals. For information, contact the Coordinator of Advising in SOC 110.

■ LIBRARY AND INFORMATION SCIENCE (LIS)

Even though degree-oriented undergraduate study is not offered in Library and Information Science, the faculty will counsel those undergraduates interested in study in librarianship at USF. 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). The State of Florida certification is accepted on a reciprocity basis in 28 states. Any student who plans to work as a school media specialist in another state should work out a program which will meet the requirements of that state.

■ 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:

LIN 3010 (3) LIN 4575 (3)
 plus a minimum of 12 semester hours from the following:
 ANT 3610 (3) CLA 3801 (2) LIN 4710 (3) SPC 3210 (3)

■ MARINE SCIENCE (MSC)

Although the department does not offer undergraduate degrees, courses in the Marine Science Department are open to advanced undergraduates in other natural science disciplines. 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 23 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 are available from the department upon request.

The department's location on St. Petersburg's Bayboro Campus allows immediate access to Tampa Bay and the Gulf of Mexico. Bayboro Harbor is home port to the R/V Bellows (71 ft.) and the R/V Suncoaster (110 ft.) operated by the Florida Institute of Oceanography (FIO) for the 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 Natural Resources (DNR). In October 1992, construction will commence on a new research building to be shared by DMS and FMRI that will house a remote sensing, satellite data-acquisition center. With the Center for Coastal Geology and Regional Studies of the U.S. Geological Survey and the office of the Tampa Bay National Estuary Program also at Bayboro, our Survey and the office for the Tampa Bay National Estuary Program also at Bayboro, our campus has one of the largest concentrations of marine scientists in the southeastern United States. Many of these scientists serve on advisory committees of DMS graduate students.

■ MASS COMMUNICATIONS (COM)

The School of Mass Communications, accredited by the Accrediting Council on Education for 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, telecommunications, magazines, news-editorial, public relations, or visual communications) 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 department 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.

Note: Students may not receive credit for both an internship (MMC 4945) and a practicum (ADV 4940, JOU 3940, JOU 4941, PUR 4700, RTV 3941, RTV 4942, VIC 3943).

Requirements for the Baccalaureate Degree

To be admitted to the core curriculum in Mass Communications, students must have completed 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 establish a minimum score of 60 percent on the Mass Communications

Diagnostic Test prior to entering MMC 3100 (Writing for Mass Media). Both courses in the Mass Communications core curriculum (MMC 3100 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 3100 and MMC 3602 will be disallowed as majors in the department. 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.

Required are six hours in the Mass Communications core curriculum (MMC 3100 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 124-hour degree requirement. Of the 124 hours at least 90 hours must be outside Mass Communications courses, and 65 of those hours must be in the liberal arts. Six hours in Mass Communications writing courses (three hours in addition to MMC 3100) are a part of the graduation 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 departmental core curriculum and one sequence introduction course. Approval by an appropriate advisor is required.

At least eighteen (18) hours of resident departmental courses are required.

Sign Language may be used as an option by Mass Communications majors to fulfill the language requirement.

The departmental sequence requirements are:

Departmental Core Curriculum

MMC 3100 (3) MMC 3602 (3)

Sequence Requirements

1. ADVERTISING Requirements

ADV 3000 (3) ADV 3303 (3) MMC 4203 (3)
ADV 3101 (3) ADV 4800 (3) MMC 4420 (3)

Selective Requirements (10 hrs. required, selected with advisor's approval)

Note: The following courses are required outside the department to complete sequence requirements: ACG 2001, ECO 2013, ECO 2023, and MAR 3023. See specific courses for prerequisites.

2. JOURNALISM Requirements

News-Editorial Option

JOU 3100 (3) JOU 4200 (3) JOU 4206 (3)
JOU 3101 (3) MMC 4200 (3) or
JOU 4104 (3) PGY 3610 (3)

Selective Requirements (10 hrs. required, selected with advisor's approval)

Magazine Option

JOU 3100 (3) JOU 4200 (3) MMC 4200 (3)
JOU 3101 (3) MMC 4936 (3) MMC 4420 (3)
JOU 3300 (3)

Selective Requirements (7 hrs. required, selected with advisor's approval)

Note: The following courses are required outside the department to complete sequence requirements: ECO 2935, PHI 1103, POS 2041, and POS 3142 or POS 2112, and SYG 3010. For Magazine sequence, CRW 2100 is also required. See specific courses for prerequisites.

3. PUBLIC RELATIONS Requirements

ADV 3000 (3) PUR 3000 (3) PUR 4100 (3)
JOU 3100 (3) PUR 4001 (3) PUR 4401 (3)
MMC 4420 (3)

Selective Requirements (7 hrs. required, selected with advisor's approval)

Note: The following courses are required outside the department to complete sequence requirements: ECO 2935, MAN 3025, POS 2041, and POS 2112 or POS 3142.

4. TELECOMMUNICATIONS Requirements

News Option

MMC 4200 (3) MMC 4420 (3) RTV 3000 (3)
RTV 3300 (4) RTV 4301 (3)

Selective Requirements (12 hrs. required, selected with advisor's

approval)

Programming and Production Option

RTV 3000 (3) RTV 3300 (4) MMC 4200 (3)
RTV 3100 (3) RTV 4220 (3) MMC 4420 (3)
RTV 4500 (3) RTV 4320 (3)

Selective Requirements (3 hrs. required, selected with advisor's approval)

Note: The following courses are required outside the department to complete sequence requirements:

For News: ORI 3000, PHI 1103, POS 2041, POS 2112, or POS 3142 and SPC 2023 or SPC 2050.

For Programming and Production: ENC 3310 or CRW 2100, and PHI 1103. See specific courses for prerequisites.

5. VISUAL COMMUNICATIONS Requirements

ADV 3002 (3) MMC 4200 (3) VIC 3000 (3)
FIL 3004 (3) PGY 3610 (3)
MMC 4123 (3) RTV 3000 (4)

Selective Requirements (6 hrs. required, selected with advisor's approval)

Note: 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.

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, the life 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 32 full-time faculty members, whose areas of interest include algebra, applied mathematics, applied statistics, approximation theory, celestial mechanics, complex analysis, functional analysis, graph theory, harmonic analysis on Lie groups, logic, mathematical physics, nonlinear functional analysis, number theory, ordinary differential equations, partial differential equations, probability theory, real analysis, statistics, theoretical computer science, and topology.

Requirements for the B.A. Degree

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. D and F grades earned in attempting to satisfy major requirements will be used in calculating the major GPA.

1. Mathematics Requirement (Min. 46 cr. hrs.)

Majors must complete the following core courses:

CGS 3422 Computer Applications of Mathematics-6A (3)
MAA 4211 Multivariate Calculus -6A (4)
MAA 4212 Intermediate Analysis -6A (4)
MAC 3311 Calculus I -6A (4)
MAC 3312 Calculus II -6A (4)
MAC 3313 Calculus III -6A (4)
MAP 4302 Differential Equations -6A (3)
MAS 3103 Linear Algebra -6A (3)
MAS 4301 Elementary Abstract Algebra -6A (3)
MAT 4937 Mathematics Majors Seminar -6A (1,1)
STA 4442 Introduction to Probability -6A (3)

In addition, majors must complete four (4) courses (including one sequence) from the following electives:

COP 4210 (3) MAA 5306-5307 (6)
MAA 5405 (3) MAS 4124-MAD 4401 (3-4)
MAD 5101 (3) MAP 5316-5317 (6)
MAD 5305 (3) MAP 5407-5345 (6)
MAS 4214 (3) MAS 5311-5312 (6)
MAS 5107 (3) MTG 5316-5317 (6)
MAS 5215 (3) STA 4442-4321 (6)

MAT 5932 (1-4)
MHF 4102 (3)
MHF 5306 (3)
MTG 4212 (4)

Majors in mathematics for teaching should consult the section Mathematics (MAE) on mathematics requirements.

The following is a suggested course program for the first two academic years:

Semester I Semester II

Freshman Year

MAC 3311 MAC 3312

Sophomore Year

MAC 3313 MAP 4302

MAS 4301 MAS 3103

2. Mathematics-related Courses (6-8 cr. hrs.)

Majors, except for majors in mathematics for teaching, must take two courses with laboratories in the College of Arts and Sciences, outside the Department of Mathematics, that are required courses for some major within the college.

Majors will not receive credit toward graduation for the following courses:

AST 3033 GEB 3121 STA 3023

GEB 2111 PHY 2020 STA 3122

Majors wishing to take a course in statistics should take STA 4321.

Teacher Education Programs

For information concerning the degree programs for secondary school teachers, see the junior college teachers section in the USF Graduate Catalog.

Requirements for the Minor in Mathematics

Although open to all students, the minor in mathematics is designed particularly for students in science and engineering who wish to enhance their mathematical capabilities to benefit their major. A student wishing to receive a minor in mathematics must take the following courses:

Total credit hours required: 29 (minimum)

CGS 3422 Computer Applications of Mathematics -6A (3)

MAA 4211 Multivariate Calculus -6A (4)

MAA 4212 Intermediate Analysis -6A (4)

MAC 3311 Calculus I -6A (4)

MAC 3312 Calculus II -6A (4)

MAC 3313 Calculus III -6A (4)

MAS 3103 Linear Algebra -6A (3)

MAS 4301 Elementary Abstract Algebra -6A (3)

In addition, students wishing to receive a minor must take two courses with laboratories in the College of Arts and Sciences, outside the Department of Mathematics, that are required courses for some major within the college.

Accelerated BA/MA Program

This program is designed for superior students having a solid background in high school mathematics and the ability to handle a fast paced, challenging program leading to a BA and MA degree in mathematics in four to five years. The program meets all the requirements for the BA degree, but requires the students to take those 5000 and 6000 level courses required for the MA degree during his last two years in the program. By awarding up to 20 hours of dual credit (undergraduate and graduate), the student also uses these courses to satisfy the requirements for the MA in mathematics. For admission to the program, a student must have completed at least 30 hours of college credit including 8 hours of 3000-level or above mathematics courses; have an overall grade point average of 3.0 or above; and have a grade point average of 3.5 or above in all mathematics courses taken at the 3000-level or above. Further information is available on request from the Mathematics Department (974-2643).

Honors Program in Mathematics

The program is designed for 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 (a) have completed MAS 3103 (Linear Algebra), MAS 4301 (Elementary Abstract Algebra) and one of the calculus sequences MAC 3281-3283 or MAC 3311-3313, (b) have at least a 3.0 overall average in their college courses, and (c) have at least a 3.5 average in their college mathematics courses. Applications are submitted to the undergraduate committee of the mathematics department.

The requirements for a B.A. Degree in Mathematics with Honors are as follows:

1. Successful completion of the requirements for a B.A. Degree in Mathematics.
2. Six credits of those graduate level mathematics courses at USF that are prerequisites for qualifying examinations required by mathematics graduate degree programs.
3. At least two credits in MAT 4939, Mathematics Honors Seminar.
4. Successful completion of MAT 4970, Mathematics Senior thesis.
5. An overall 3.0 G.P.A., with at least a 3.5 G.P.A. in all mathematics courses.

MEDICAL TECHNOLOGY (MET)

Medical Technology is one of the growing professions associated with the advances in modern medical science. Working in the clinical laboratory, the medical technologist performs chemical, microscopic, bacteriologic, and other scientific tests to help track the cause and treatment of disease. A baccalaureate degree is required for certification as a medical technologist.

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 on the campus of the University of South Florida; the fourth year (12 months) is spent in one of the affiliated hospitals or clinical laboratories. Admission to the fourth year is limited by the number of openings in the affiliated hospitals. Selection of interns is made by the hospitals.

All courses required for admission to the clinical internship must be completed prior to beginning the internship year. These requirements include:

1. A minimum of 90 semester hours (excluding physical education).
2. All university general distribution requirements.
3. Writing and computation requirements for 6A-10.30.
4. Liberal arts requirements for natural science majors (15 hours).
5. A minimum of 20 semester hours of science and mathematics courses completed in residence at USF.
6. The following science and mathematics courses:

Biology:

BSC 2011C (4) BSC 2010C (4)

MCB 3030C (4) PCB 5235C (3)

An additional biology elective. (MCB 4115 or BSC 3092 is strongly recommended.)

Chemistry:

CHM 2041 (3) CHM 2045L (1)

CHM 2046 (3) CHM 2046L (1)

CHM 3120 (4) CHM 3210L (1)

CHM 3200 (4) or CHM 3210 (4) and CHM 3211 (4)

One hospital requires BCH 3023 or a second semester of organic chemistry. CHS 4300 is recommended.

Physics:

PHY 3053 (3) PHY 3053L (1)

PHY 3054 (3) PHY 3054L (1)

Mathematics:

MAC 2102 (3) or MAC 2132 (4)

STA 3023 (4) or STA 3122 (3)

Upon successful completion of this curriculum and acceptance by one of the affiliated hospitals or clinical laboratories, the student will complete 12 continuous months of training at that hospital or laboratory. This training period usually begins in late July or early August of each year, but a few begin in January or February.

During this period, 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:

MLS 3031	MLS 4862	MLS 4865	MLS 4860
MLS 4863	MLS 4866	MLS 4861	MLS 4864

These courses will be taught at the hospital or clinical laboratory. Students successfully completing this program will be granted a Bachelor of Science degree in Medical Technology.

■ MODERN LANGUAGES (FRE/GER/ITA/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 (under Classics), Russian, and Spanish. The minor consists of 16 hours of course work in the chosen language above the second-year level. 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 (12 cr. hrs.)

FRE 3240 (3) FRE 3420 (3) FRW 4100 (3) FRW4101 (3)

Supporting courses required for the major

20 hours in 3000, 4000, or 5000 level courses planned with the advisor.

Required courses for the minor (6 cr. hrs.)

FRE 3240 (3) FRE 3420 (3)

Supporting courses required for the minor

Nine hours in 3000, 4000, or 5000 level courses except courses in translation.

German (GER)

Requirements for the major (14 cr. hrs.)

GER 3244 (3) GER 3420 (3) GEW 4100 (4) GEW 4101 (4)

Supporting courses required for the major

18 hours in 3000, 4000, or 5000 level courses planned with the advisor.

Required courses for the minor (six cr. hrs.)

GER 3244 (3) GER 3420 (3)

Supporting courses required for the minor

10 hours in 3000, 4000, or 5000 level courses except courses in translation.

Italian (ITA)

Required courses for the major (15 cr. hrs.)

ITA 3240 (4) ITA 3420 (3) ITW 4100 (4) ITW 4101 (4)

Supporting courses required for the major

17 hours in 3000 or 4000 level courses planned with the advisor.

Required courses for the minor (seven cr. hrs.)

ITA 3240 (4) ITA 3420 (3)

Supporting courses required for the minor

Nine hours in 3000 or 4000 level courses except courses in translation.

Russian (RUS)

Required courses for the major (14 cr. hrs.)

RUS 3240 (4) RUS 4241 (4) RUT 3110 (3) 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

Eight hours in 3000 or 4000 level courses.

Spanish (SPA)

Required courses for the major (12 cr. hrs.)

SPN 3300 (3) SPW 4101 (3) SPW 4301 (3)

SPW 4100 (3) SPW 4131 (3)

All 3000 level courses may be waived with approval by the Division Director.

Supporting courses required for the major:

Twenty 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

Twelve hours in 3000, 4000 or 5000 level courses except courses in translation.

■ 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 3600 Ethical Theory
- d. At least one of the following:
PHI 4300 Theory of Knowledge
PHI 5225 Philosophy of Language
PHI 4320 Philosophy of Mind
PHI 3404 Scientific Method
- 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 the completion 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
- PHH 4600 Contemporary Philosophy
or
PHH 4440 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 Continental Philosophy or PHH 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 3600	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

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

PHH 4700	American Philosophy
PHP 3786	Existentialism
PHP 4000	Plato
PHP 4010	Aristotle
PHP 4410	Kant
PHP 4740	Rationalism
PHP 4745	Empiricism

- (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.

■ PHYSICS (PHY/PHS)

The Department of Physics offers programs leading to a Bachelor of Arts or a Bachelor of Science degree, to a Master of Science degree, and to a Ph.D. in Applied Mathematics or Engineering Science. Both thesis and non-thesis programs are available for the M.S. degree. An interdisciplinary arrangement with the Department of Mathematics and with the College of Engineering provides for the Ph.D. opportunity. Students should consult with the Physics Graduate Advisor for details.

Requirements for the Baccalaureate Degrees

1. Physics Courses

B.A. PHYSICS (PHY) (34 cr. hrs.)

PHY 3048 ¹ (3)	PHY 3221 (3)	PHY 4324C (4)
PHY 3048L ¹ (1)	PHY 3323C (4)	PHY 4823L (2)
PHY 3049 ¹ (3)	PHY 3822L (2)	PHY 4910 (1-4)
PHY 3049L ¹ (1)	PHY 4222 (3)	PHY 4930 (1)

Physics Electives (6)

B.S. PHYSICS (PHS) (44 cr. hrs.)

PHY 3048 ¹ (3)	PHY 3323C (4)	PHY 4604 (3)
PHY 3048L ¹ (1)	PHY 3424 ² (4)	PHY 4823L (2)
PHY 3049 ¹ (3)	PHY 3822L (2)	PHY 4910 (1-4)
PHY 3049L ¹ (1)	PHY 4222 (3)	PHY 4930 (1)
PHY 3101 (3)	PHY 4324C (4)	PHZ 5405 ² (3)
PHY 3221 (3)	PHY 4523 (3)	

¹The sequence PHZ 3101 (2), PHY 2053 (3), PHY 2053L (1), PHY 2054 (3), and PHY 2054L (1) may be substituted for the sequence indicated.

²Substitutions permitted subject to approval of adviser.

2. Supporting Courses in the Natural Sciences

B.A. and B.S. PHYSICS (20 cr. hrs.)

CHM 2041 (3)	CHM 2046L (1)	MAC 3313 ³ (4)
CHM 2045L (1)	MAC 3311 ³ (4)	MAP 4302 (3)
CHM 2046 (3)	MAC 3312 ³ (4)	

³The sequence MAC 3281 (3), MAC 3282 (3), and MAC 3283 (3) may be substituted for the

sequence indicated.

3. General Distribution Requirements (40 cr. hrs. excluding waivers)

The student is required to complete the general distribution requirements of the College of Arts and Sciences. Selection of a foreign language, preferably French, German, or Russian is also strongly recommended.

4. Liberal Arts Elective

The student must satisfy 15 hours of liberal arts electives as described in item 5 of the graduation requirements of the College of Arts and Sciences.

5. Free Electives

(Including general distribution waivers) can be taken over and above major requirements and major electives to complete a 120-hour program.

6. Residency Requirement

A minimum of 12 credit hours of physics course (No. 1 above) in residency.

7. D and F grades earned in attempting to satisfy major requirements will be used in calculating the major GPA.

Teacher Education Programs

For information concerning the degree programs for secondary school teachers, see Teacher Education Programs this college; for junior college teachers, see USF Graduate Catalog.

■ 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. 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 B.A. Degree

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:

- 2000/3000 Level Requirement (6 semester hours)
Successful completion of: PSY 3044 (3 semester hours) and one of the following:

INP 3101	PSY 2012	PSY 3022	SOP 3742
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- Methods Course Requirement (7 semester hours)
Successful completion of: PSY 3213 and one of the following:

CLP 4433	PSY 4205
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or another methods course approved by the undergraduate advisor in Psychology.
- 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
EXP 4304	EXP 4523C	
Group II		
CLP 4143	INP 4004	SOP 4004
DEP 4005	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 4205 is recommended for students planning graduate training. Functional mathematics and biological science are also

recommended. 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 or those majoring in Interdisciplinary Social Sciences, a grade of "C" or better in any college-level statistics course will 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.

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 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.

■ REHABILITATION COUNSELING (REF)

The mission of Rehabilitation Counseling is to help physically, mentally, emotionally, and chemically disabled individuals return to full, rewarding, and productive lives. Rehabilitation Counselors work in a wide variety of settings, but are most commonly employed in 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 Counseling has roots in both the national rehabilitation movement and professional counseling movement. Training emphasizes psychological, social, medical, and vocational aspects of disability; and also the development and refinement of personal adjustment counseling skills. Graduates with an M.A. degree from the USF Department of Rehabilitation Counseling are prepared for careers as both rehabilitation specialists and mental health counselors. Special elective concentrations in substance abuse and multicultural rehabilitation are also offered. Other study concentrations can be arranged on an individual basis.

The Department of Rehabilitation Counseling offers only the M.A. degree. However, a five-year master's program is available to undergraduates where an M.A. degree in Rehabilitation 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, 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 1000 on the GRE or a "B" average in all work beyond 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 Counseling may be found in the Graduate Catalog.

Undergraduates interested in the five-year program (REF) ideally should contact the department during their sophomore year.

The graduate program in Rehabilitation 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). With some additional elective course work and three years experience, graduates are also eligible to take the examination for state licensure as Mental Health counselors.

■ RELIGIOUS STUDIES (REL)

In Religious Studies, students are afforded a variously dimensioned field of study which should facilitate an educated person's understanding of his presuppositions on the meaning of life, the nature of the religious-social milieu in which he lives, and the religious dynamic in human history. It also aims toward an understanding of the religious thought and lifestyles of people possessing religious heritages other than the Judaeo-Christian heritages.

Majors in Religious Studies will find, in addition, courses designed to give depth in certain areas of religious investigation and supply language tools and critical analysis methods which will prepare them for advanced graduate study.

Requirements for the Baccalaureate Degree

A total of 36 credit hours are required for a major chosen from Religious Studies courses.

Of the 36 hours required for a major in Religious Studies, nine hours may be selected from related courses in other departments, with the prior approval of a departmental advisor.

All Religious Studies Majors are required to take:

1. Two courses in the history and/or literature of the major western religions: e.g., Judaism, Christianity, Islam.
2. Two courses in the history and/or literature of the major world religions: e.g., Hinduism, Buddhism, Taoism.
3. REL 4931, Seminar in Religion, 3 hrs.; REL 4939, Development of Religious Studies, 3 hrs.

A student majoring in Religious Studies may not apply towards his major requirements more than nine hours of credit from the directed readings course, REL 3900, or the undergraduate research course, REL 4910.

All transfer students must take a minimum of 24 hours in Religious Studies courses at USF.

Each student's program must be planned with a faculty advisor in Religious Studies.

Requirements for the Minor in Religious Studies

Eighteen (18) credits in Religious Studies courses, including the following: REL 3003, Introduction to Religion; one course, in a major Western religion; one course, in a major Eastern religion; REL 4910, Undergraduate Research, 1 hr., a paper on a topic approved by the Department Chairperson, and supervised by an assigned faculty person.

It is a department requirement (intended to assist in the fulfilling of the above requirements) that the student declare himself as a minor in the department two semesters prior to graduation.

Only letter grades will be counted toward the 18 credit hours necessary for the minor.

Ancient Studies Sequence

Within the Department of Religious Studies there is also a sequence of courses in Ancient Studies. This sequence provides a program for students interested in the civilizations of the Ancient Mediterranean and Middle East.

The sequence in Ancient Studies requires 38 credits (of which 24 credits must be in Religious Studies courses). The prerequisite is normally two years of high school Latin or one year of college Latin. (The latter can be taken concurrently with other required courses but without credit toward it. It can be waived in special cases with the consent of the coordinator.)

The sequence of Ancient Studies courses is to be arranged in consultation with the coordinator of the sequence and approved by the department chairperson.

For related interdisciplinary electives, see Classics.

Judaic Studies Sequence

The department has a sequence of courses in Judaic Studies. A student may fulfill the requirements of the department for the B.A. degree (36 hrs.) by taking the core courses in the Judaic Studies Sequence and the remainder of his/her courses from the listed electives.

CORE:

REL 3003	Introduction to Religion	(3)
REL 3611	History of Judaism I	(3)
REL 3612	History of Judaism II	(3)
REL 3613	Modern Judaism	(2)
REL 4221	Hebrew Bible I/Old Testament Law and History	(4)
REL 4224	Hebrew Bible II/Prophets and Writings	(4)
TOTAL		(19)

ELECTIVES (select 16 hrs.)

ANT 4367	The Middle East	(3)
HEB 1120	Basic Hebrew I	(4)
HEB 1121	Basic Hebrew II	(4)
LIT 3374	The Bible as Literature	(3)
LIT 4930	Selected Topics in English Studies	(1-4)
REL 3280	Biblical Archaeology	(3)
REL 3600	Introduction to Judaism	(3)
REL 3900	Directed Readings	(1-4)
REL 4910	Undergraduate Research	(1-4)
REL 4931	Seminar in Religion	(3)

With the approval of the Department Chairperson, substitutions may be made in both the core and elective courses where the changes are considered to be in the student's best interest.

South Asian Studies Sequence

Within the Department of Religious Studies, there is a sequence of courses in South Asian Studies, designed for the student who wishes to pursue interdisciplinary studies in the civilizations of South Asia while rooted in the methodologies of Religious Studies. Therefore, a core course in South Asian Religions, as well as interdisciplinary courses in South Asian Studies are required. Of the required 36 credits required for the B.A. degree, 8 form the religious studies core, and 3 form the South Asian Religions core. Twenty-five additional credits are to be elected, all subject to the approval of the Director of South Asian Studies, with a minimum of two courses taken in the Social Sciences and one course from the Humanities (other than Religious Studies) or Fine Arts.

The student must submit a senior thesis which demonstrates a level of scholarship appropriate for an undergraduate degree in South Asian Studies. This requirement may be met by submitting an exemplary paper already written for a course in the South Asian Studies sequence, or the student may write a new thesis through REL 4910, Undergraduate Research. Sequence requirements are approved by the Director of South Asian Studies and the Chairman of the Department.

RELIGIOUS STUDIES CORE (8 hrs):

REL 3921	Colloquium	(2)
REL 4931	Seminar in Religion	(3)
or		
REL 4939	The Development of Religious Studies	(3)
one course in western religion		

SOUTH ASIAN RELIGIONS CORE (3 hrs):

REL 3330	Religions of India	(3)
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ELECTIVES (Minimum of 16 hrs.):

REL 4333	Hinduism	(4)
REL 4343	Buddhism in India, Sri Lanka, and Southeast Asia	(4)
REL 4344	Buddhism in China, Japan, and Tibet	(4)
REL 3900	Directed Readings	(1-4)
REL 4910	Undergraduate Research	(1-4)

and other courses or study abroad programs as approved by the Director of South Asian Studies.

HUMANITIES/ARTS REQUIREMENT (Minimum of 3 hrs.)

HUM 4402	Humanities in the Orient: India	(4)
HUM 3271	Culture East & West - I	(4)
HUM 3273	Culture East & West - II	(4)
ARH 4530	Oriental Art	(4)

and other courses or study abroad programs as approved by the Director of South Asian Studies.

SOCIAL SCIENCE REQUIREMENT (Minimum of 6 hrs.)

GEA 3703	Geography of Asia	(4)
ASH 3501	History of India	(4)
CPO 4930	Comparative Government and Politics of Selected Countries or Areas	(3)

and other courses or study abroad programs as approved by the Director of South Asian Studies.

■ SOCIAL WORK (SOK)

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 interventive methods, and skill in their application to a variety of client systems. For example, interventive methods may take the form of individual and group counseling, resource development, consultation, teaching, advocacy, etc. Client systems may be individuals, families, groups, community groups, organizations, or social welfare organizations. 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 filing intent to seek admission or actually 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.

Admission to the B.S.W. program is a two-stage process. Any student that holds a minimum of Sophomore standing 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 and a similar form with the School of Social Work. All pre-majors will be assigned to an advisor within the School who will assist the student in selecting pre-core courses (see listing of pre-core courses.) Many students will have already taken most of the pre-core courses as part of general distribution at USF or in their course of study at a community college. After completing the pre-core courses a student will be ready to apply 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 pre-core 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;
4. A student may be asked to complete an admission interview with a favorable action from the Admissions 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.

Pre-Core Course

A student must successfully complete:

1. One course in each of the following cognate areas or equivalency-

Human Biology:

Food and Drugs
Sex, Reproduction and Population
Principles of Biology for Non-majors

Political Science:

American National Government
State and Local Government
Florida Politics and Government

Psychology:

Introduction to Contemporary Psychology
Contemporary Problems in Psychology
General Psychology

Sociology:

Introduction to Sociology
Contemporary Social Problems
Social Psychology

2. One of the following cross-cultural courses -

African and Afro-American Studies:

Introduction to Afro-American Studies
Social Institutions and the Ghetto
Black Americans in the American Economic Process
Blacks in American Political Process

Anthropology:

Introduction to Anthropology
Anthropological Perspective

Cultural Anthropology

Sociology:

Racial and Ethnic Relations

Women's Studies:

Introduction to Women's Studies
Contemporary Women in the United States
Psychology of Women
Sex Roles in Cross-Cultural Perspective

3. One of the following Life Span Development courses -
The Life Cycle
Developmental Psychology
4. Both of the following Social Work courses -
American Social Welfare System
Introduction to Social Work

Requirements for the B.S.W. Degree (Core Courses)

1. Human Behavior and Social Environment Courses
SOW 3101 (3) SOW 3102 (3)
2. Social Welfare: Policy & Service 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 (10)
6. Additional Requirements
SOW 4522 (2)

Summary:

Core Courses	26 hours
Field Experience	10 hours
TOTAL	36 hours

■ SOCIOLOGY (SOC)

The primary purpose of the major in Sociology is to contribute directly to the student's capacity for critical analysis and understanding of social phenomena and the dynamics of social structure and process. At the same time, it will prepare students for a wide range of careers such as teaching, law enforcement, personnel work, sales, research, urban planning, etc. It also provides training for advanced graduate work in sociology and social psychology and other applied areas such as gerontology, criminal justice, social work, etc.

Requirements for the Baccalaureate Degree

The major consists of a minimum of 36 credit hours. The following courses may not be counted in the 36 hour minimum for the major but may be elected as additional courses: SYG 3010, SYG 2412, SYA 3504. No more than 3 credit hours of Individual Research (SYA 4910) may be counted as major elective credit. A minimum grade of "C" or better must be attained in each course in the major. Grades of "D" or "F" attained in sociology coursework (other than SYG 3010, SYG 2412 and SYA 3504) will, however, be used in calculating the major GPA unless the course is retaken under the grade forgiveness policy. A model program of recommended sequences may be obtained from the Department of Sociology.

Transfer students should be aware that by University regulations, the equivalent of one academic year must be taken in on-campus courses. In Sociology, we require that of the 36 credits needed to make up the major, no more than 9 credits earned elsewhere, including exchange program credits, can count towards the major. The purpose of this rule is to insure that our certification that an individual who has majored in sociology genuinely reflects our understanding of sociology as a major and that there is no fundamental difference between the transfer student and those whose work was entirely or mostly completed at the University of South Florida. Students are encouraged to complete the core courses as soon as possible after declaring the major. The core courses for the major are:

STA 3122 (3) SYG 2000 (3) SYA 3010 (3) SYP 3000 (3)
SYA 3300 (3) either SYO 3530 (3) or SYO 3500 (3)

For students electing a major after having successfully taken 12 upper level credits without having had a formal Introductory course, SYO 3500 (Social Organization) may be substituted for SYG 2000 as a requirement. Students making this choice must take SYO 3530 to meet the additional requirement stated above.

Given the nature of changes in society, students are encouraged to become computer literate in ways that are appropriate to their career goals.

Requirements for the Minor in Sociology

A minor consists of a total of 15 credits; SYG 2000, Introduction to Sociology (or equivalent) plus 12 semester hour credits at the 3000 level or higher. A grade of "C" or better must be attained in each course used to satisfy the minor requirement. Courses that do not count toward the major may not be used toward the minor. Though we do not require an advisor, feeling students to be capable of making reasonable choices, we recommend the use of an advisor to find the best set of courses fitting one's personal interests.

■ WOMEN'S STUDIES (WST/ISS)

The Department of Women's Studies offers two majors: Women's Studies and Interdisciplinary Social Sciences. A minor in Women's Studies is also available. Requirements for the majors in Women's Studies and Interdisciplinary Social Sciences are described below.

WOMEN'S STUDIES (WST)

Requirements for the B.A. Degree

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 and at least 1 course from each of the following 6 areas of concentration (18 hours) and 12 hours of electives

- | | |
|-------------------------|--------------------|
| 1. MULTICULTURAL ISSUES | 2. HISTORY |
| WST 3275 | AMH 3561 |
| AFA 4335 | AMH 3562 |
| ANT 4302 | WST 3210 |
| WST 4260 | WST 3220 |
| WST 5266 | WST 4309 |
| | WST 4310 |
| 3. HUMANITIES | 4. SOCIAL SCIENCES |
| REL 3145 | SOP 3742 |
| WST 4335 | SYD 4800 |
| AMS 3370 | WST 2380 |
| WST 4262 | WST 4320 |
| WST 4263 | |
| 5. THEORY/PHILOSOPHY | 6. PUBLIC POLICY |
| WST 4342 | POS 4693 |
| PHI 4632 | POS 4694 |
| PHM 5125 | PUP 4323 |
| WST 5001 | |
| WST 5318 | |

The following courses, not included within the six areas of concentration, may be used to complete elective hours:

WST 3010	WST 4930
WST 3360	WST 5934
WST 4900	STA 3122
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	

INTERDISCIPLINARY SOCIAL SCIENCES (ISS)

This program of study is designed to provide an interdisciplinary focus in the social sciences for students who are interested in a broad educational experience that extends beyond the boundaries of a single discipline and is housed in Women's Studies. This major offers a wide choice of courses, and an opportunity to design a program of study geared toward the student's individual needs and interests. Each program of study is designed in such a way that quality and coherence are assured. The program of study is to be planned by the student in 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 STA 3122, ISS 3010, and ISS 4935. Women's Studies majors take WST 4935 in place of ISS 4935. Communication Sciences & Disorders students take STA 3122 and ISS 3010. 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.
2. the ISS student chooses between two cognate areas (provided below) and completes twelve hours in each. Three special electives are added.
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, under any circumstances, that courses already completed in CAS will automatically count toward the ISS degree.
4. students must maintain a minimum grade point average of 2.0 in ISS to graduate.
5. 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.

6. 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. A thesis will be required of students taking this option.

No transfer courses with grades of "D" are acceptable for credit in the ISS major.

COGNATE AREAS - you must select two areas, and take 12 hours in each. Cognates must be selected from the areas of study listed below:

AFA, ANT, CCJ, ECN, GEY, GIA, GPY, HTY, HUS, INT, LAS, PAD, PSY, SOC, SOW, SPA, and WST.

Interdisciplinary Core Courses

Two of these courses, one an introductory course and the other a senior seminar, are taught from an interdisciplinary social science perspective. These courses are designed to introduce students to the study of humans in social groups, the various concepts, theories and methods studied in the social sciences, and apply them to the issues of the day. Social Science Statistics is also required for majors in Interdisciplinary Social Sciences.

COLLEGE OF BUSINESS ADMINISTRATION

UNIVERSITY OF SOUTH FLORIDA - 1993/94 UNDERGRADUATE CATALOG

The College of Business Administration offers courses of study leading to both undergraduate and graduate degrees. These programs are designed to prepare men and women for careers in business and public service.

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; (3) specialized areas of concentration in Accounting, Economics, Finance, Management, Marketing, General Business, Management Information Systems; and (4) opportunities for breadth in both business and nonbusiness subjects. 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 attempted at USF including any prior to salvage.
 - c. Completion of these prerequisite college courses (or equivalents):
 - Financial & Managerial Accounting I & II
 - Microeconomics and Macroeconomics
 - Statistics I
 - Computers in Business
 - Elementary Calculus I
 - d. All courses (or their equivalents) listed in c., above, must be completed: (1) with at least a C- grade, and (2) with a combined minimum grade point average of 2.25.
 - 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.
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. Minimum of 550 on TOEFL 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.

Transfers from Junior/Community Colleges

Junior/community college students should complete the program of general education at the junior/community college.

Students pursuing the associate degree in university transfer/parallel curricula at the junior/community college should take two semesters of mathematics to include a course in elementary calculus, two semesters of accounting principles, two semesters of economic principles, one semester of statistics, and one semester of

data processing, including computer utilization. (See paragraph 2c above.) Students pursuing associate degrees in terminal/career programs must be aware that some courses taken at the junior/community college may not be acceptable for credit in the baccalaureate programs at USF.

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 economic 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 College of Business Administration, USF.

Transfer Students From Other Colleges and Universities

Transfer credits ordinarily will be accepted from accredited institutions in the amount earned; however, all hours earned may not always be applied toward graduation. Individual courses will be evaluated and appropriately credited toward requirements in the student's program at the University of South Florida. Transfer students are required to complete satisfactorily, at USF a minimum of 21 semester hours of Business Administration courses, of which at least 12 semester hours must be in the major field. Independent study and independent research courses do not fulfill this requirement. The university requires that at least 30 of a student's last 60 hours be taken in on-campus courses at USF.

General Requirements for B.A./B.S. Degree

Students must satisfactorily complete a minimum of 120 semester hours, of which 60 or more must be earned at baccalaureate degree-granting institutions. Of the 120 hours, 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 College of Business Administration). Additional electives may be required to reach 120 hours. These electives may be either business or non-business. More specifically the requirements for graduation are:

		Semester Hours
1. Non-Business		
General Distribution		
a. English		
6 (min.)		
b. Fine Arts & Humanities		6 (min.)
c. Mathematics & Quantitative Methods		
(Calculus is required)		6 (min.)
d. Natural Sciences		6 (min.)
e. Social and Behavioral Sciences		6 (min.)
Additional general distribution courses to reach at least 40 hours (see General Distribution Requirements for more details)		
Additional non-business courses to reach at least 54 hours.		
Total Non-Business		54-60
2. Business		
Foundation Courses in Business		
ACG 2001	Financial & Managerial Accounting I	3
ACG 2011	Financial & Managerial Accounting II	3
BUL 3320	Law and Business I	3
CGS 2000	Computers in Business	3
ECO 2013	Economic Principles: Macroeconomics	3
ECO 2023	Economic Principles: Microeconomics	3
ECO 3101	Intermediate Price Theory	3
FIN 3403	Principles of Finance	3
QMB 2150	Business & Economic Statistics I	3
QMB 3200	Business & Economic Statistics II	3
MAN 3025	Principles of Management	3
ISM 3431	Management Science	3

MAR 3023 Basic Marketing	3
GEB 4890 Business Policy	3
Total Foundation Courses in Business	42
Major Requirements	18-20
Sufficient courses to reach at least 60 hours	
Total Business Courses	60-66

3. Electives in Business or Non-Business

Sufficient electives courses to reach 120 hours	
Total Hours	120

4. All business students are required to select at least one course that deals with contemporary international topics. This course can be included in the business, non-business, or elective category. Consult with a business advisor for suggestions on acceptable courses.

5. A grade-point average of 2.0 must be achieved in the major field, as well as in all USF work, for students to be certified for graduation. Students must have satisfactorily completed CLAST and the writing and computation course requirements of 6A-10.30 ("Gordon Rule"). For a Bachelor of Arts degree, students must pass the foreign language competency exam.

6. All courses in the major or minor field and all foundation courses in business must be taken on a graded basis; the S/U option is not available.

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

Student Advising and Records

The Office of Undergraduate Programs provides the following services for College of Business Administration students:

1. Academic advising and program information.
2. Orientation for undergraduate students applying for admission to the College of Business Administration. Orientation is mandatory prior to being accepted.
3. Registration and drop/add for business courses.
4. Evaluation of undergraduate transcripts of transfer students.
5. Maintenance of academic advising records for all admitted students.

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. Currently two tracks are available.

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.

Track 1 is the traditional general business track in which the student is required to take one upper level course from each of the following groups:

Accounting:

ACG 3102 Intermediate Accounting I	(4)
ACG 3341 Cost Accounting and Control I	(3)
TAX 4001 Federal Taxes I	(3)

Economics:

Any course offered by the Economics Department numbered 3000 or above.	(3)
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Finance:

Any course offered by the Finance Department numbered 3000 or above. Except FIN 3100 and FIN 3105.	(3)
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Management:

MAN 3240 Organizational Behavior Analysis	(3)
MAN 3401 Industrial Relations	(3)
ISM 3011 Management Information Systems	(3)

Marketing:

MAR 3823 Marketing Management	(3)
MAR 3613 Marketing Research	(3)
Other upper level business electives	(2-9)
TOTAL	(18-24)

Independent study and independent research courses are not appropriate electives.

Track 2 is a Real Estate oriented track which requires 24 credit hours of multidisciplinary course work in business and economics as well as in urban planning, architecture, public administration and other related fields. Students interested in the Real Estate track should see a business advisor to obtain the detailed choices necessary to develop their plan of study.

ACCOUNTING (ACC)

The objectives of the baccalaureate degree program in accountancy 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 accountancy.

The baccalaureate program also prepares students for entry into the Master of Accountancy (M.Acc.) professional degree program. See CPA requirements in the state of Florida below.

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 20 hours of upper level accounting courses.

Required Accounting Courses:

ACG 3102 Intermediate Accounting I	(4)
ACG 3112 Intermediate Accounting II	(4)
ACG 3341 Cost Accounting and Control I	(3)
ACG 3401 Accounting Information Systems	(3)
TAX 4001 Federal Taxes I	(3)
ACG 4632 Auditing I	(3)
Total	(20)

Required non-business Courses:

One of the following:

ENC 3213 Professional Writing	
ENC 3310 Expository Writing	
(or other equivalent course)	

One of the following:

COM 3110 Communications for Business and the Professions	
SPC 2023 Fundamentals of Speech Communications	
(or other equivalent course)	

The student's program must also include coursework 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.

Students planning to enroll in the M.Acc. Program should take TAX 4015, Federal Taxes II, as part of their required accounting courses resulting in a 23 hour major.

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 on to the next course: i.e., ACG 3102, ACG 3341, ACG 4632, TAX 4001.

Students desiring to take the Uniform CPA Examination to practice as certified public accountants are required to have completed a five-year (150 semester hour) program of study.

Any further questions concerning the CPA examination should be directed to the faculty of the School of Accountancy.

ECONOMICS (ECN)

Economics offers a clear, logical way of thinking about complicated business problems and contemporary social issues such as unemployment, inflation, pollution, and crime. The department offers two major programs. Option I, by offering broad choices, allows students to tailor their programs to provide training for careers in business, teaching, or government service. It is also excellent preparation for graduate education in business, law and other professional areas. Option II, by offering the student continuing concentration in price theory, aggregate economics, mathematical economics, and econometrics prepares students for graduate education in economics. The department offers a minor program open to students throughout the University.

Students interested in majoring or minoring in economics should contact the undergraduate academic advisor in the Department of Economics for more information about the program.

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 3101, Intermediate Price Theory, in order to enroll in any course for which ECO 3101 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.

Option 1

Required Economics Courses:

- a) ECO 3203
- b) 15 hours of upper-level economics courses (to ensure broad coverage students must include at least one course from each of groups A, B, and C in their programs). At least 9 of the 15 hours of additional upper-level economics courses must be courses for which either ECO 3101 or ECO 3203 is a prerequisite. These courses are marked with an asterisk.
 - Group A** (at least 3 hours) selected from: ECO 3622, ECP 3413, ECP 3613, ECP 4232, ECS 3013
 - Group B** (at least 3 hours) selected from: *ECO 4303, ECO 4323, *ECP 4451, ECS 4003
 - Group C** (at least 3 hours) selected from: *ECO 3703, *ECO 4504, *ECO 4213, *ECP 3203, ECO 4935 (Selected Topics - *Industrial Organization)

Option II

Required Economics courses (15 hours):

- ECO 3203 Intermediate Income and Monetary Analysis
- ECO 4935 Selected Topics-Advanced Price Theory
- ECO 4935 Selected Topics-Advanced Aggregate Economics
- ECO 4401 Mathematical Economics
- ECO 4935 Selected Topics-Introduction to Econometrics
- Additional upper-level economics course (3 hours)

Requirements for a Minor in Economics

Students majoring in Business Administration, as well as students from other colleges may minor in Economics. The requirements are:

1. ECO 2023 Economic Principles (Microeconomics) (3)
 ECO 2013 Economic Principles (Macroeconomics) (3)
 ECO 3101 Intermediate Price Theory (3)
 ECO 3203 Intermediate Income and Monetary Analysis (3)
 Upper level economics electives (6)
 Total Economics Hours (18)
 (excluding the variable credit courses ECO 4905 and 4914)
 QMB 3200 Business and Economic Statistics II, or its equivalent, is acceptable for credit in the minor.
2. Before being recognized as a minor in economics, students must obtain approval of the courses involved in their minor program from the advisor in the Economics department.

3. A grade-point average of 2.0 or better must be achieved in the minor coursework for a student to be certified for graduation with a minor in economics.
4. At least 12 of the required 18 credits must be taken in residence at USF.

FINANCE (FIN)

The Finance program provides a broad-gauged analytical program for students anticipating a career in management of both large and small organizations. Students seeking a financial career in business, in financial institutions or careers in the fields of insurance, real estate, or financial planning should find the finance major particularly valuable. In addition, the program in finance is designed to provide the flexibility needed by students who seek professional degrees in areas such as law and public administration.

The Finance program offers applied and theoretical courses directed to the identification and solution of problems in the acquisition and allocation of funds by organizations in both the private and public sectors in both domestic and multinational settings. Finance relies on an interdisciplinary approach which draws on economic theory, accounting, information systems, and the quantitative decision framework of statistics and mathematics.

The required courses for finance majors focus on understanding the institutional environment and the analytical tools used by decision makers. Also included are concepts of capital budgeting, risk analysis, asset and liability management, and an examination of the economic, social, and regulatory forces affecting the decision-making process.

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 3233 Money and Banking (3)
- FIN 4414 Advanced Corporation Finance (3)
- FIN 4504 Principles of Investments (3)
and either
- FIN 4443 Financial Policies and Strategies (3)
or
- FIN 4514 Advanced Investment Analysis and Management (3)
- AND a minimum of 2 additional Finance electives... from the following Approved list. (6)
- Total (18-24)

Approved List:

- FIN 3604 International Finance (3)
- FIN 4303 Financial Institutions (3)
- FIN 4324 Bank Management (3)
- FIN 4412 Working Capital Management (3)
- FIN 4443 Financial Policies and Strategies (3)
- FIN 4514 Advanced Investment Analysis and Management (3)

And other courses approved by the Finance Department Chair.

INFORMATION SYSTEMS AND DECISION SCIENCES (ISM)

The Management Information Systems (MIS) major provides the skills, knowledge and abilities necessary for information systems development and information systems management positions both in business and non-business organizations.

Requirements for the B.A./B.S. Degree

Students will typically enter the program at the beginning of their junior year. Within the 120 semester hour program listed in the General Requirements section, students must complete a set of three MIS courses which are required of all majors, nine hours of approved MIS electives and three additional non-business courses as indicated below. No more than six credit hours can be applied toward the major for ISM 4905 and/or ISM 4950.

Required MIS Courses:

ISM 3113 Systems Analysis and Design	(3)
ISM 4212 Database Administration	(3)
ISM 4300 Managing Information Services	(3)
Approved MIS Electives	(9)
Total	(18-24)

Required Non-business Courses:*one of the following:*

- COM3110 Communication for Business and the Professions
- SPC 2023 Fundamentals of Speech Communication
- ENC 3213 Professional Writing
- ENC 3310 Expository Writing

(or other equivalent course)

plus the following:

- COP 3120 COBOL Programming I
(COBOL I is a prerequisite for most of the required MIS courses and should be completed by the end of the first semester in the junior year.)
- COP 3121 COBOL Programming II
(or other high-level language)

**Requirements for a Minor in MIS
(for Business Majors only)**

Students majoring in Business Administration may minor in MIS.

The requirements are:

1. ISM 3113 Systems Analysis and Design (PR: cobol) (3)
- ISM 4212 Database Administration (3)
- MIS electives approved by department chair (6)
- Total MIS hours (12)
2. A grade-average of 2.0 or better must be achieved in the minor coursework.
3. 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 Resource Management, Industrial Relations, and Small Business Management. It also prepares students for entry into graduate programs, such as the Master of Science in Management and the Master of Business Administration.

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.

Non-Business Requirements*one of the following:*

- ENC 3213 Professional Writing
- ENC 3310 Expository Writing

(or other equivalent course)

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)
- Management electives approved by department chair (9)
- Total Management hours (12)
2. A grade-average of 2.0 or better must be achieved in the minor coursework.

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 his own 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.

The following Marketing elective tracks are recommended for students with specific interests.

Industrial Marketing/Sales Management

- MAR 4403 Sales Management
- MAR 4453 Industrial Marketing
- MAR 4503 Buyer Behavior
- MAR 3400 Professional Selling

Promotion (Industrial and/or Consumer)

- MAR 4333 Promotion Management
- MAR 4503 Buyer Behavior
- MAR 4933 Promotion Campaigns

- MAR 3400 Professional Selling
Logistics and Physical Distribution (Industrial and/or Consumer and/or International)
 MAR 4203 Channels Management
 MAR 4213 Logistics and Physical Distribution Management
 MAR 4453 Industrial Marketing
 MAR 4231 Retailing Management
 and/or
 MAR 4156 International Marketing
Retailing
 MAR 4231 Retailing Management
 MAR 4503 Buyer Behavior
 MAR 4333 Promotion Management
 and/or
 MAR 3400 Professional Selling
 MAR 4213 Logistics and Physical Distribution Management

Other Campuses

Due to limited enrollment and faculty, only the following majors are regularly offered at the Regional Campuses:

St. Petersburg

Accounting, Management, and General Business Administration (Track 1).

Sarasota

Accounting and General Business Administration (Track 1).

Fort Myers

Accounting and General Business Administration (Track 1).

Lakeland

Only limited courses available

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 Administration

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.

American Society of Personnel Management - Student chapter of the American Society for Personnel Administration designed for students interested in careers in human resource management.

American Student Production and Inventory Control Society

- An organization which practices the art and science of production and inventory management. ASPICS's primary objective is to develop professional efficiency through study, research, and application of scientific methods. Professional meetings and publications promote the dissemination of knowledge and information.

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.

Economics Club - Provides a forum for discussion of economic issues and actively encourages communication between students and Economics faculty.

Iota Phi Lambda - A business and professional sorority designed to encourage the development of personalities for all areas of leadership.

Management Information Systems Society - Student chapter of the Data Processing Management Association, career oriented and interested in all areas of business data management.

Minority Students Organization - Encourages and supports students in their efforts to achieve success in a demanding academic setting.

Phi Chi Theta - A career oriented professional organization that encourages the study of business.

Pi Sigma Epsilon - A professional society interested in marketing, sales management, and selling.

Sigma Iota Epsilon - An honorary and professional management society affiliated with the Academy of Management.

Student Accounting Organization - Promotes accounting both as an academic discipline and as a profession.

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.

COLLEGE OF EDUCATION

UNIVERSITY OF SOUTH FLORIDA - 1993/94 UNDERGRADUATE CATALOG

The College of Education places an emphasis on students learning what is relevant for the world of the 21st century and on their getting deeply involved in thinking about themselves and their universe.

The College of Education is committed to a continuous and systematic examination of the professional program of teacher education. Professional practice is examined experimentally 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 all academic areas. Courses needed by teacher candidates but designed also for other students are offered outside the College of Education. Courses in the University which are primarily designed for teacher candidates are taught by the College of Education faculty.

In the total teacher education program there is a special concern for developing in the student a deep interest in intellectual inquiry and the ability to inspire this interest in others.

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 Personnel Office of the College of Education. Prospective secondary and K-12 teachers are enrolled in teacher education programs involving both the College of Education and various other colleges of the liberal arts areas.

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 Distribution requirements for Education majors. Provisional admission may be granted if no more than three individual General Distribution courses remain to be taken, provided Freshman English has been completed.
3. Completion of a minimum of 50 semester hours.
4. An overall minimum GPA of 2.5 on all attempted hours plus a minimum ACT score of 19 (enhanced ACT score of 20 or SAT score of 835) 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 21 or higher ACT score (enhanced ACT score of 22 or SAT score of 940). Students must submit a score from the American College Test (ACT) or Scholastic Aptitude Test (SAT).

Admission to programs will be based upon the applicants' 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. The absolute minimum test scores for this process are prescribed by the College of Education.

5. Additional criteria are 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, certain programs admit students only in a specified semester. Students should refer to the specific program descriptions in this catalog for additional admissions information. Information regarding admission requirements for the program(s) of their choice may also be obtained from the Student Personnel Office, College of Education.

Time Limitations

The College of Education will 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 will be accepted.
2. Courses completed over five years but less than ten years ago: For courses taught by College of Education faculty, approval from the appropriate departmental chairperson is required before credit is granted. For courses taught by other than College of Education faculty, approval from the chairperson of the department that requires the course is necessary.
3. Courses completed ten years ago or longer will count as elective credit only.

Admission to Internship Experience

The final internship experience is observing and teaching in elementary, secondary, or exceptional schools. Special vocational sites are arranged through the Adult and Vocational Education Department. Other than Senior Seminar 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 Distribution, "Gordon Rule," and foreign language requirements.
3. Completion of an application for the final internship by the deadlines published in the College of Education.
4. Completion of the professional education sequence except for measurement/special education/computers in education courses, a minimum of two thirds of specialization, no course work with less than a "C" grade, and a minimum of 2.5 grade point average in each area; or an overall 2.5 grade point average. The Elementary/Early Childhood programs require a combined grade point average of 2.5 in professional education and specialization as well as an overall 2.5, and completion of all teaching specialization except two of the following: ARE 4313, HLP 4722, MUE 4210.
5. Acceptance by a school approved by the College of Education and the Florida Department of Education.
6. Completion of other requirements prescribed by the applicable program.

Application for internship must be made by the published deadlines noted below. The applications may be obtained in the Office of Clinical Education and Academic Advising.

Applications for Fall Semester are due the preceding January 30.

Applications for Spring Semester are due the preceding June 15.

Admission to Classes

The control of entry to all classes on all campuses will rest with the department chairperson. Each department will establish and publish priorities for allowing students to enroll in classes. Students not in attendance at the first class meeting will be dropped from the course.

College Requirements for Graduation

To be certified by the College of Education for graduation, a student must have earned 120 semester hours credit including the last 30 credit hours on campus. 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. The Elementary/Early Childhood programs require a combined grade point average of 2.5 in professional education and specialization as well as an overall 2.5. Satisfactory completion of the internship is also required. Prior to completion of the internship, the student must pass both the subject area and the Professional Education sections of the Florida State Teacher Certification Examination. A student must also have completed the major requirements in an approved teaching 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 in residence. The student must complete a minimum of 30 hours after admittance to an upper level program. Students pursuing their first bachelor's degree must have passed all parts of the

CLAST examination, and have completed foreign language, general distribution, "Gordon Rule," and the summer school attendance requirement.

Specific Requirements

A minimum of 120 credit hours including the following:

General Distribution	40 credit hours
Professional Education Core	32-49 credit hours
Teaching Specialization	27-49 credit hours

Program requirements: Check individual program descriptions for requirements beyond the college minimum.

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). As part of the 120 credit hours minimum requirement for graduation, students may include elective courses. The courses should be selected in consultation with a faculty advisor. The College of Education permits students to count, as part of the 120-hour requirements, courses in Elective Physical Education and up to 9 hours of USF Army or Air Force ROTC credits.

SunCoast Area Teacher Training Program (SCATT)

SCATT is an award-winning honors-level teacher training program founded on the premise that prospective teachers are the key to influencing the future of our society. The SCATT program offers two options for College of Education majors to enhance their education, Option 1: the existing SCATT Honors Program and Option 2: the SCATT Honors Course Sequence.

The existing Program is designed to provide bright and talented pre-service teachers with challenging activities, workshops, and seminars to aid and encourage them to become highly qualified, dedicated educators. The wide variety of opportunities offered to SCATT members provides them with an enhanced view of education as a field of study and with experiences which extend "above and beyond" the requirements of the present academic program. SCATT also helps prospective employers identify pre-service teachers who have demonstrated high levels of academic achievement, ability, leadership and a commitment to the profession.

The SCATT Honors Course Sequence includes: early field experiences in the schools with SCATT supervising teachers, intensive study in current teaching strategies, exposure to top role models in the field of education, and a support network created to increase options for maximum success. Students who are selected to participate in the SCATT Course Sequence automatically become members of the existing SCATT Honors Program. To receive SCATT Honors Course status, the entire three course sequence is required. To be selected for the SCATT Honors Course Sequence, students must apply, meet SCATT Program eligibility requirements, have three semesters remaining prior to their final internship, and participate in an individual interview.

Eligibility Requirements for SCATT

Students who have been admitted to the USF College of Education and who have achieved a minimum score of 21 or 22 (depending on the date of the exam) on the American College Test (ACT) or 1000 or above on the Scholastic Aptitude Test (SAT) are eligible. A student is also eligible for membership in SCATT if the student enters the College of Education with a 3.5 or above overall grade point average and submits two letters of recommendation from professors/advisors. An interview/orientation must be arranged before being admitted to the SCATT Program. This can be arranged by contacting the SCATT program at (813) 974-2061.

Florida Department of Education Requirements for Teacher Certification

College of Education programs are reviewed by the Florida Department of Education. Those programs meeting the requirements of Chapter 6A-5, Rules of the State Board of Education of Florida, are given "Approved Program" status. These rules are subject to

rapid changes and programs must change accordingly to maintain their "approved" status. Program requirements listed in this catalog are needed for graduation. To be eligible for a Florida Educator's Certificate, the student must complete all requirements listed on applicable current program checklist, complete the "Professional Orientation Program" and pass all parts of the State Teacher Certification Examination.

Programs Leading to the Baccalaureate Degree

The College of Education has programs leading to the Bachelor of Science degree* in the following fields:

Program	Department	Code
Art Education	Secondary Education	(ARE)
Behavior Disorders	Special Education	(EED)
Business and Office Education	Adult & Vocational Education	(BTE)
Distributive and Marketing Education	Adult & Vocational Education	(DEC)
Elementary/Early Childhood Education	Not currently being offered	(EEC)
Elementary Education	Childhood/Language Arts/Reading	(EDE)
English Education	Secondary Education	(ENE)
Foreign Language Education	Secondary Education	(FLS)
Industrial-Technical Education	Adult & Vocational Education	(EVT)
Mathematics Education	Secondary Education	(MAE)
Mental Retardation Education	Special Education	(EMR)
Music Education	Music Education	
Instrumental Vocal General		(MEI)
Physical Education		(MEV)
Elementary Secondary Wellness	Professional Physical Education	(MEG)
Science Education		(PTE)
Biology Chemistry Physics		(PTS)
Social Science Education	Secondary Education	(PTW)
Specific Learning Disabilities Education	Special Education	(NSB)
		(NSC)
		(NSP)
		(SSE)
		(ELD)

See Departmental Section for specific program requirements.

*A B.A. degree may be awarded when competency in a foreign language is demonstrated.

Teacher Education Program

There are three distinct areas in the teacher education program, and all teacher candidates must meet certain minimum requirements in each. The three areas and their requirements are as follows:

1. General Distribution Requirements (40 credit hours)

The five areas of General Distribution and the specific requirements are as follows:

Area I English Composition:

ENC 1101 and ENC 1102

Area II Fine Arts and Humanities:

A minimum of six hours of selected courses (i.e., course must include the writing requirement) from any two of the following departments: American Studies, Art, Classics, Dance, English, Foreign Languages, Humanities, Music, Philosophy and Theatre.

Area III Mathematics:

A minimum of six hours. MAC 2102/MGF 2202 or more advanced courses offered by the Mathematics Department. Logic, Statistics and selected Engineering computer courses are acceptable for three hours of the requirement.

Area IV Natural Sciences:

A minimum of six hours of courses offered by the Departments of Astronomy, Biology, Chemistry, Geology, or Physics.

Area V Social and Behavioral Sciences:

a. For EDE and EEC majors, two American History courses, or one American History and one American National Government course.

b. For all other programs: A minimum of six hours of any of the courses taught in Social and Behavioral Sciences. PSY 2012 and SYG 2000 are recommended. See the University General Distribution Requirements section of the catalog for exceptions and additional approved courses.

Courses required for a student's major program will not be counted in the total 40 hours although areas of general distribution requirements may be waived where appropriate. A student will be limited to 8 hours in a single department toward distribution requirements in any area. Students may not elect to take any of the above S/U.

2. Professional Education Core (36-45 credit hours)

The required courses in the professional education core are as follows:

EDF 3122	Learning and the Developing Child (For Elementary or Early Childhood Majors)	(4)
EDF 3214	Human Development and Learning (for all other programs)	(3)
EDF 3604	Social Foundations of Education	(3)
EDF 3542	Philosophy of Education	(4)
EDG 4620	Curriculum and Instruction	(3)
EDF 4430	Measurement for Teachers	(3)
* EME 4402	Intr. to Computers in Ed	(2)
** EEX 4070	Exceptional Student Ed Methods Course(s)	(4-6)
	Internship and Seminar	(12)***
****	Reading Requirement	(2-3)

*Not required in Music Education.

**Not required in Special Education.

***Elementary, Physical Education, Early Childhood and Special Education internships (or practicums) are 18-23 semester hours.

****Not required in Music, Foreign Language Education, or Physical Education. Reading is in the specialization for EDE, EEC, and Special Education programs.

3. Teaching Specialization Preparation (27-49 credit hours)

Course requirements in the area of teaching specialization vary according to field of specialization. These specialization requirements are listed with the programs that follow in the departmental section.

DEPARTMENTS AND PROGRAMS

The College of Education is organized into 11 departments. Each department has one or more programs which are listed alphabetically in the following departmental section.

Department of Adult and Vocational Education

The Adult and Vocational Education Department at the University of South Florida offers degrees through the College of Education designed to prepare teachers and leaders in the various fields of Vocational and Adult Education. Certification programs leading to the Bachelor of Science (B.S.) degree are: Business and Office Education, Distributive and Marketing Education, Industrial-Technical Education, and Technology Education.

BUSINESS AND OFFICE EDUCATION**Requirements for the B.S. Degree (BTE):**

General Distribution and Professional Education requirements are listed under Teacher Education Program.

In Business Education specific program competencies in the specialization must be demonstrated through satisfactory completion of BTE 4909. Special prerequisites are required for BTE 4364, which are taken concurrently in the semester immediately prior to the supervised internship as approved by an advisor.

Specialization Requirements (43 cr. hrs.):

Accounting (2 courses)	Office Information Processing/Economics (2 courses)
Business Communications	Word Processing
Principles of Management	Principles of Vocational Education
Office Occupations Procedures	Business Law
Electives (6 hours approved by advisor)	

Introduction to Computers
General Office/Administrative competencies met through successful completion of BTE 4909.

DISTRIBUTIVE AND MARKETING EDUCATION**Requirements for the B.S. Degree (DEC):**

General Distribution and Professional Education requirements are listed under Teacher Education Program.

Specialization (42 credit hours):

ACG 2001	DEC 4941	ECO 2013	MAR 3023
DEC 4161	ECO 2023	MAR 4403	MAR 3823
EVT 4065	FIN 3100	FIN 3105	MAR 4231
MAR 4333			

Distributive and Marketing Education undergraduates are required to accumulate a total of five (5) hours of credit in DEC 4941 Supervised Field Experience to round out and broaden the vocational background of the student to properly fulfill certification requirements. Students will also be able to receive credit for participation in the professional activities of the Delta Epsilon Chi, chapter of the Distributive Education Clubs of America, which is an integral part of the Distributive and Marketing Education teacher preparation curriculum.

INDUSTRIAL-TECHNICAL EDUCATION**Requirements for the B.S. Degree (EVT):**

General Distribution and Professional 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 Industrial, Technical, Health Occupations, or Public Service.

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 in Science degree program in a technological specialty from one of the State Community Colleges 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.

Required: 38 semester hours.

EVT 4065	EVT 4165	*EIV 4210	EVT 4562
ADE 4384	EVT 4367	EVT 4365	EIV 4360
EVT 4946	EVT 4084		

*Another course may be substituted with advisor's approval.

TECHNOLOGY EDUCATION (IND. ARTS) TRACK:

Within the EVT program, students can pursue state certification in Technology Education. In general, students enrolling into the Technology Education program are expected to have successfully completed, at a community college, most of the technical 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 will be corrected by enrolling into 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 Distribution Requirements of 40 semester hours, the Professional Education Core Requirements of 40-41 semester hours, the Technical Course Requirements of 30 semester hours, and 12 semester hours in Adult and Vocational Education. The requirements in Adult and Vocational Education are as follows:

Required: 23 semester hours including:

EVT 4065 EIV 4210 EVT 4165 EIA 3192
EIA 4360 EVT 4365

Plus electives selected with advisor approval.

Department of Childhood/Language Arts/Reading Education

The Childhood/Language Arts/Reading Education department has the responsibility for the development and supervision of programs leading to the Bachelor of Science degree in Elementary/Early Childhood Education and Elementary Education.

Prerequisites for admission to these programs include two American History courses, or one American History and one American National Government course. One of these must be AMH 2010 or 2020 or the equivalent. These courses may be taken as part of the general distribution requirement.

Elementary Education Certification Programs

Students may complete a state-approved program to be eligible for certification in either Elementary or Elementary-Early Childhood Education. Pending new certification requirements, Early Childhood Education will be established as age three to grade three. Degree requirements are subject to change. The current program of studies includes both coursework and extensive field experiences in a school setting to enable students to integrate theory with teaching practice. Upon successful completion of the required courses and the associated internships, Elementary majors will be eligible to apply for certification in grades one through six. Elementary-Early Childhood majors will be eligible to apply for certification for kindergarten through 6th grade upon completing the requirements of this program, so students electing to pursue either the Elementary or the Elementary-Early Childhood major will be assigned to a specified sequence of courses to be followed throughout the program enrollment. This sequence includes two semesters of part-time field experience and one semester of full-day internship. All part-time internship courses must be successfully completed as a member of an internship team in designated local schools under the supervision of a faculty team leader. Students who withdraw from Level I or Level II Internships, or who make an unsatisfactory grade, must petition the department Professional Standards Committee before they will be allowed to repeat either internship.

Elementary and Elementary-Early Childhood majors are required to complete a concentration of 15 hours in one of the following areas: English, Mathematics, Science, Social Science, or Foreign Language.

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 internship and graduation.

Prior to the final internship, students can have no more than five (5) courses remaining from the following courses: EDF 4430, EEX 4070, EME 4402, ARE 4313, HLP 4722 and MUE 4210. Only EEX 4070 may be taken with the final internship.

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 as specified in the modified program.

Internships

The Elementary and Elementary-Early Childhood preservice teacher education programs require all students to complete a sequence of three internship courses beginning with the student's first semester of program enrollment. (Total 22 semester hours)

■ ELEMENTARY EDUCATION

Requirements for the B.S. Degree (EDE):

General distribution and Professional Education requirements are listed under Teacher Education Program.

The Elementary program also includes the following methods course in the Professional Education requirements:

EDE 4301

The major consists of 32 semester hours of elementary specialization courses as follows:

ARE 4313	LAE 4414	MUE 4210	RED 4310
HLP 4722	MAE 4310	SCE 4310	RED 4511
LAE 4314	MAE 4326	SSE 4313	

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. (Note: The Elementary program is under review which will result in course changes during the 1993-94 academic year.)

■ ELEMENTARY/EARLY CHILDHOOD EDUCATION

Requirements for the B.S. Degree (EEC):

General Distribution and Professional Education requirements are listed under Teacher Education Program. The Elementary/Early Childhood program also includes the following methods course in the Professional Education requirements:

EDE 4301

Students interested in early childhood teaching, which includes children age three to grade three, should pursue a program leading to eligibility for Florida certification both in primary and elementary education (N-6).

The major consists of 42 semester hours of Elementary/Childhood Education specialization courses as follows:

ARE 4313	HLP 4722	MUE 4210	RED 4310
EEC 4203	LAE 4414	SCE 4310	RED 4511
EEC 4303	MAE 4310	SSE 4313	
EEC 4706	MAE 4326		

Students are advised that the Elementary/Early Childhood specialization will require an enrollment of more than the traditional four semesters of the junior and senior year in order to complete the program specialization courses and the required sequences of internships.

Department of Secondary Education

General Distribution and Professional Education requirements are listed under Teacher Education Program.

The following programs are housed in the Department of Secondary Education:

- Art Education
- English Education
- Foreign Language Education
- Mathematics Education
- Science Education
- Social Science Education

The undergraduate programs 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.

Internship Program. The Department of Secondary Education internship is offered in the fall and spring terms.

■ ART EDUCATION (ARE):**Requirements for the B.S. Degree**

At the time of application to upper level, each Art Education student must submit slides or portfolio to the head of the department. To assist transfer students in selection of courses, they must submit work prior to or during registration.

After completing studio requirements for state certification each student may elect to emphasize painting, sculpture, graphics, ceramics, or photography/cinematography for the remaining studio electives.

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 2202C ART 3110C ART 3510C
ART 2203C ART 3701C ARH 4450

One of the following: ART 3420C or ART 3470C

ART Studio Electives approved by adviser

ART History Elective

Plus the following:

Two hours from either Music or Dance curricula or from the Theater Department, and one aesthetics or one art criticism course.

■ ENGLISH EDUCATION (ENE):

General Distribution and Professional Education requirements are listed under Teacher Education Program.

1. ENGLISH:

A minimum of 39 semester hours, including:

CRW 2100, ENC 3310, and LAE 4464

One of the following:

EDG 4320 or MMC 3602

One of the following:

ENG 3105 or LIT 3073

One of the following:

ENL 3331 or ENL 3332

One of the following:

LIN 4340 or LIN 4370

One of the following:

ORI 3000 or SPC 2023

One of the following:

ENL 3015, ENL 3230, ENL 3250, or ENL 3273

One of the following:

LIT 3101, LIT 3102, or LIT 3144

One of the following:

LIN 3010, LIN 3801, or ENG 4060/5067

Two of the following:

AML 3031, AML 3032, or AML 3051

2. ENGLISH EDUCATION:

Nine semester hours in methods of teaching English at the middle and secondary levels: LAE 4325, LAE 4530, and LAE 4642. LAE 4530 must be taken concurrently with one of the other methods courses, the fall or spring immediately preceding internship.

■ FOREIGN LANGUAGE EDUCATION (FLS):

General Distribution and Professional Education requirements are listed under Teacher Education Program. A minimum of 30 credit hours beyond intermediate course requirements must be earned in the foreign language. Programs are available for Spanish, French and German.

1. Foreign language (30 credit hours)

grammar, conversation, composition	12
literature	6
culture and civilization	6
linguistics	3
language elective	3

2. Foreign Language Education

9 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 4334 (practicum)

■ MATHEMATICS EDUCATION (MAE):

Admission Requirements: In addition to the College requirements, students must complete MAC 3311 or an equivalent course. General Distribution and Professional Education requirements are listed under Teacher Education Program.

1. Mathematics:

38 semester hours in mathematics above the 2000 level.

Required courses are:

MAC 3311	MAD 3100	MHF 5405
MAC 3312	MAS 3103	MTG 4212
MAC 3313	MAS 4301	STA 3023
CGS 3422	MAS 5215	

2. Mathematics Education:

Eleven hours in teaching mathematics at the secondary level.

Required courses are:

MAE 4320	MAE 4551	MAE 4330
CGS 4010		

■ SCIENCE EDUCATION (NSB, NSC, NSP):

Admission requirements: General Distribution and Professional Education requirements are listed under Teacher Education Program. In addition to the College requirements, the minimum requirement for acceptance into a program is the completion of 16 semester hours of required science courses.

Course Requirements:**1. SCIENCE:**

A minimum of 32 semester hours in the discipline of major concentration (Biology, Chemistry, or Physics) and a minimum of 16 semester hours within the natural sciences outside the concentration area.

2. SCIENCE EDUCATION:

As a minimum, satisfactory completion of the following courses: PHI 3404, SCE 4305, SCE 4320, and SCE 4330. These courses deal with philosophy of science, communication skills and the teaching of science at the middle grades and secondary school levels. In addition, a Physics major will need a three credit hour course in computer applications in science.

■ SOCIAL SCIENCE EDUCATION (SSE):

General Distribution and Professional Education requirements are listed under Teacher Education Program.

Course Requirements:**1. SOCIAL SCIENCE:**

A minimum of 40 semester hours, including:

ECO 2023	GEO 3042	EUH 2030
ECO 2013	AMH 2010	EUH 2031
GEO 3013	AMH 2020	POS 2041

One of the following:

AFH 3100 or LAH 3200

One of the following:

POS 2112	POS 4165
POS 3142	INR 3002

One of the following:

SYG 3010	SYO 3500	SYP 5405
SYP 3000	SYD 4410	

2. SOCIAL SCIENCE EDUCATION:

Eight semester hours in methods of teaching and communication skills in Social Studies: SSE 4333, SSE 4334, and SSE 4640.

Department of Educational Measurement and Research

The Department of Educational Measurement and Research provides support services for undergraduate programs. Students in all programs are required to take EDF 4430, Measurement for Teachers. This course develops skills and understandings related to test

construction, reporting student progress, test score interpretation, measurement characteristics, and measurement as an information resource.

Department of Music Education

■ MUSIC EDUCATION (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 similar musical potential 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 who do not pass the diagnostic test will be placed in a music fundamentals course which does not fulfill a requirement in the music major curriculum. All transfer students are required to take a theory placement test and enter at the appropriate level of study. Students may obtain the dates for these examinations from the music office.

Special requirements for all music education majors; successful completion of the piano proficiency requirements as defined by the music and music education faculties; participation in a major performing ensemble each semester the student is enrolled in applied music; and the presentation of a one-half hour recital in the major performing medium during the last semester of enrollment in applied music.

Students are to present a record of satisfactory recital attendance through registration in MUS 2010 (see the specific requirements for MUS 2010 as set by the music faculty).

For other degree requirements see College of Education requirements and the University's General Distribution and graduation requirements. Note exceptions applicable to this program.

1. Instrumental Specialization (72 cr. hrs.)

Music Education courses (20 cr. hrs.)

MUE 2090 (2)	MUE 3450 (1)*	MUE 4311 (3)
MUE 3421 (1)	MUE 3451 (1)	MUE 4321 (2)
MUE 3422 (1,1)	MUE 3460 (1)**	MUE 4332 (3)
MUE 3423 (1,1)	MUE 3461 (1)	MUE 4480 (2)

* Not required of woodwind majors

** Not required of brass majors

Music courses (min. 52 cr. hrs.)

MUT 1111 (3)	MUT 2117 (3)	MUH 3300 (2)
MUT 1112 (3)	MUT 2246 (1)	MUH 3301 (3)
MUT 1241 (1)	MUT 2247 (1)	MUH 3302 (3)
MUT 1242 (1)	MUL 2111 (3)	MUG 3101 (2)
MUT 2116 (3)		

Applied Music (Principal) 12 cr. hrs. with a minimum of 4 hours at the 3000 level and concurrent registration in MUS 2010.

Music electives (2)

Applied Music Secondary (Techniques - 3 cr. hrs.)

(One each: string, percussion, voice)

Major performing ensembles

(Minimum of one per semester of applied music - 6 cr. hrs.)

Graduating recital

Piano proficiency requirement

Other Fine Arts Requirement

Art, Dance, Theatre (min. 3 cr. hrs. to be selected from one or more of the other departments of the College of Fine Arts)

2. Vocal Specialization (72 cr. hrs.)

Music Education courses (16 cr. hrs.)

MUE 2090 (2)	MUE 3423 (1)	MUE 4352 (2)
MUE 3421 (1,1)	MUE 3450 (1) or 3451 (1)*	
MUE 3422 (1)	MUE 3460 (1) or 3461 (1)*	
MUE 4331 (3)	MUE 4311 (3)	

One hour courses must be repeated to achieve 16 cr. hrs.

*As determined by audition.

Music courses (min. 56 cr. hrs.)

MUT 1111 (3)	MUT 2116 (3)	MUL 2111 (3)
MUT 1112 (3)	MUT 2117 (3)	MUH 3300 (2)
MUT 1241 (1)	MUT 2246 (1)	MUH 3301 (3)
MUT 1242 (1)	MUT 2247 (1)	MUH 3302 (3)
MUG 3101 (2)		

Applied Music (Principal) 12 cr. hrs. through with a minimum of 4 hours at the 3000 level and concurrent registration in MUS 2010.

Applied Music Secondary (Techniques 2 cr. hrs.)

(one each: string, percussion)

Major Ensembles

(Minimum of one per semester of applied music - 6 cr. hrs.)

Music Electives (7)

Piano proficiency requirement

Graduating recital

Other Fine Arts Requirement

Art, Dance, Theatre (min. 3 cr. hrs. to be selected from one or more of the other departments of the College of Fine Arts)

3. General Music Specialization (72 cr. hrs.)

Music Education courses (15 cr. hrs.)

MUE 3460 (1) or MUE 3461 (1)*	
MUE 3450 (1) or MUE 3451 (1)*	
MUE 2090 (2)	
MUE 3421 (1)	MUE 4311 (3)
MUE 3422 (1)	MUE 4330 (3)
MUE 3423 (1)	MUE 4352 (2)

One hour courses must be repeated to achieve 16 cr. hrs.

*As determined by audition.

Music Courses (min. 56 cr. hrs.)

MUT 1111 (3)	MUT 2116 (3)	MUL 2111 (3)
MUT 1112 (3)	MUT 2117 (3)	MUH 3300 (2)
MUT 1241 (1)	MUT 2246 (1)	MUH 3301 (3)
MUT 1242 (1)	MUT 2247 (1)	MUH 3302 (3)
MUG 3101 (2)		

Applied Music Principal 12 cr. hrs. with a minimum of 4 hours at the 3000 level and concurrent registration in MUS 2010.

Applied Music Secondary Techniques (3 cr. hrs.)

(one each: string, percussion, voice)

Major Ensembles

(minimum of one per semester of applied music - 6 cr. hrs.)

Major electives (7)

Piano proficiency requirement

Graduating recital

Other Fine Arts requirement

Art, Dance, Theatre (min. 3 cr. hrs. to be selected from one or more of the other departments of the College of Fine Arts)

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 develop desired skills and insight into the role physical activity plays in their lives. Laboratory experiences in recognized sports activities allow students to select and develop proficiency appropriate for leisure pursuit and personal development. Human movement courses expand personal awareness of the effect of physical activity through examination of the interaction between the needs and abilities of the person and the benefits of the activity. Special competency courses prepare interested students with skills and techniques applicable for conducting or directing community activities related to sport and movement.

■ PROFESSIONAL PHYSICAL EDUCATION PROGRAM

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 (PTE/PTS/PTW)

The two-year program is offered beginning in the junior year and includes mandatory attendance during the summer session between the junior and senior years.

In order to be admitted to the Program, all students must participate in a selective admissions procedure. Enrollment in the Program is limited and students can only enter during Semester I of each year.

In addition to applying to the University, all students must apply directly to the Department before May 1 for priority admission consideration. Students applying after May 1, and before the final deadline of June 1, will be accepted only on a space-available basis. Requests for admission to the Program should be directed to:

Director
School of Physical Education, Wellness, and Sports Studies
College of Education
University of South Florida
4202 E. Fowler, PED 214
Tampa, Florida 33620-8600

Course Requirements:

1. PROGRAM PREREQUISITES FOR ALL TRACKS:

APB 3190 Human Anatomy & Physiology
HSC 2400 First Aid

2. CORE COURSES FOR ALL TRACKS:

EME 4402 Introduction To Computers In Education
PEQ 3101 Aquatics
PET 3012 Personal/Professional Development Seminar
PET 3310 Kinesiology
PET 3351 Exercise Physiology I
PET 3422 Instructional Design & Content: Movement Experiences
PET 4622 Care & Prevention of Physical Injuries

3. ADDITIONAL REQUIRED COURSES FOR K-8 TRACK: (PTE)

EDF 3122 Learning & The Developing Child
EDF 4430 Measurement for Teachers
EDF 3604 Social Foundations of Education
PET 3031 Motor Development & Assessment
PET 3421 Curriculum and Instruction in Physical Education
PET 3441 Instructional Design & Content: Middle School Physical Education
PET 3640 Adapted Physical Education
PET 3799 Career Decision Making & Professional Ethics
PET 3943 Physical Education Internship: Middle School
PET 4141 Trends & Tasks: Elementary Physical Education
PET 4401 Organization and Administration of Physical Education Programs
PET 4432 Instructional Design & Content: Physical Education Elementary
PET 4433 Instructional Design & Content: Physical Education Elementary II
PET 4934 Senior Seminar in Elementary Physical Education
PET 4942 Physical Education Internship: Elementary
PET 4946 Associate Teaching Physical Education: Elementary

4. ADDITIONAL REQUIRED COURSES FOR 6-12 TRACK: (PTS)

EDF 3604 Social Foundations of Education
EDF 4430 Measurement for Teachers
EDF 4131 Learning and the Developing Adolescent
PET 3031 Motor Development & Assessment
PET 3421 Curriculum and Instruction in Physical Education
PET 3441 Instructional Design & Content: Middle School Physical Education
PET 3640 Adapted Physical Education
PET 3799 Career Decision Making & Professional Ethics
PET 3943 Physical Education Internship: Middle School
PET 4142 Trends & Tasks: Secondary Physical Education
PET 4304 Principles & Issues in Coaching
PET 4401 Organization & Administration of Physical Education Programs
PET 4442 Instructional Design & Content: Physical Education Secondary
PET 4443 Instructional Design & Content: Physical Education Secondary II
PET 4933 Senior Seminar in Secondary Physical Education
PET 4944 Physical Education Internship: Secondary
PET 4947 Associate Teaching Physical Education: Secondary

5. ADDITIONAL COURSES REQUIRED FOR WELLNESS LEADERSHIP TRACK: (PTW)

ADE 4384 Working with the Adult Learner
GEY 3601 Behavior Change in Later Life
HUN3201 Nutrition
PEP 3940 Practicum in Health Promotion/Wellness
PEP 3951 Communication Skills for Wellness Leaders
PEP 4941 Wellness Internship
PEQ 3170 Aquatic Exercise
PET 3080 Survey of Wellness Programs
PET 4404 Organization & Administration of Wellness Programs
PET 4353 Exercise Physiology II
PET 4384 Health Fitness Appraisal & Exercise Prescription

In addition to the above courses, students in the Wellness Leadership Track are required to take a minimum of eight hours (or 4 courses) of the following elective courses which are activity courses related specifically to those found in Wellness Programs. These courses can be taken any time during the two years.

PEL 1341 Tennis I
PEL 2441 Racketball
PEM 2131 Weight Training
PEM 2441 Karate
PEM 2930 Jogging
PEM 2930 Advanced Jogging
PEM 2930 Aerobic Dance
PEM 2930 Cycling
PEM 2930 Str & Aer Dev
PEM 2930 Swim Aerobics
PEM 2930 Triathlon
PEM 2930 Aquatic Fitness
PEN 1121 Swimming I
PEN 2113 Life Saving
PEN 2172 Swimming II
PET 3931 Teaching Aerobic Dance/Exercise

Department of Psychological and Social Foundations of Education

The Department of Psychological and Social Foundations of Education provides courses for all students majoring in the wide array of undergraduate programs available in the College of Education. These courses contribute to the students' understanding of the general education enterprises and are considered foundational to later professional specialization.

EDF 3122	EDF 3604	EDF 4909	IDS 3115
EDF 3214	EDF 3810	EDF 5136	
EDF 3228	EDF 4131	EDF 5285	
EDF 3542	EDF 4905	EDF 5672	

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 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 and a faculty advisor. All courses are taken with the assigned team. Since no teams start in the summer, there are no summer admissions. This sequence includes three semesters of part-time field experience and one semester of full-day internship. All part-time field experiences must be successfully completed as a member of a team concurrently with specified course in designated local schools under the supervision of a faculty member. Field experiences begin during the second semester of a student's enrollment. Students are responsible for providing transportation to their experience sites.

In some instances 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.

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	EEX 4221	EEX 4604
EED 4941	EEX 4243	MAE 4310
EEX 3010	EEX 4846	RED 4310

One of the following:

ARE 4313	MUE 4210	SCE 4310
SSE 4313		

Two of the following:

EEC 4706	LAE 4314	LAE 4414
RED 4511	SPA 4000	

Mental Retardation (MR Certification)

Students seeking the B. S. degree with certification in MR are required to take the following courses:

EEX 3010	EEX 4243	EMR 4941
EEX 4221	EEX 4604	MAE 4310
EEX 4846	EMR 4011	RED 4310

One of the following:

ARE 4313	MUE 4210	SCE 4310
SSE 4313		

Two of the following:

EEC 4706	LAE 4314	LAE 4414
RED 4511	SPA 4000	

Specific Learning Disabilities (LD Certification)

Students seeking the B. S. degree with certification in LD are required to take the following courses:

EEX 3010	EEX 4243	ELD 4941
EEX 4221	EEX 4604	MAE 4310
EEX 4846	ELD 4011	RED 4310

One of the following:

ARE 4313	MUE 4210	SCE 4310
SSE 4313		

Two of the following:

EEC 4706	LAE 4314	LAE 4414
RED 4511	SPA 4000	

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 nine Student Government Senators. Elections are held annually in November; 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 is a non-profit professional organization concerned with the education and well-being of children two to twelve years of age. Members are located throughout the United States.

The USF chapter works directly with children through observation, projects, and programs. In addition, it provides opportunity for students to attend study conferences throughout the state of Florida which allows the student an opportunity for professional growth and exchange of professional ideas. Membership is open to all students, including freshmen, concerned with children two to twelve years old.

Student Council for Exceptional Children

The Student Council for Exceptional Children is an organization of those members of the University interested in the education of the exceptional child. Various exceptionalities included are Gifted, Emotionally Disturbed, Physically Handicapped, Mentally Retarded, and Culturally Different.

Activities of the USF Chapter include field trips to various special educational facilities, prominent speakers, seminars, state and national conventions, and social events. The specific activities are determined by the members and the exceptionalities in which they are interested. All interested students are invited to join.

County Music Educators National Conference

Student Music Educators Conference is an affiliate of the Music Educators National Conference and the Florida Music Educators Association. It is devoted to the furtherance of knowledge and understanding of music education on all levels. Membership is open to any student in the University of South Florida who is interested in the teaching of music.

National Education Association Student Program

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.

Phi Beta Lambda

Phi Beta Lambda is a business fraternity open to all students, including freshmen, expressing an interest in Business. The emphasis is on promoting free enterprise and instilling leadership qualities.

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.

Physical Education Association (PEA)

The Physical Education Association (PEA) is open to all students enrolled in the Physical Education Program. Social and professional meetings are conducted throughout the year to promote interaction within the organization.

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 the University of South Florida.

Association for Library and Information Students

This is a professional organization associated with the Library, Media, and Information Studies Department and is open to all members of the university community interested in librarianship.

The USF group provides programs and guest speakers of interest to the campus community and publishes a newsletter for its members. It is the official voice of students in the department and members of the association are included on faculty-student committees within the department.

Delta Epsilon Chi of America (DECA)

The College Chapter of DECA is an integral part of the Distributive and Marketing Education and Marketing Teacher Preparation Program at the University of South Florida and provides Distributive Education majors with leadership opportunities, social experience, learning activities and professional involvement.

Minority Organization of Students in Education

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 M.O.S.E. 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.

COLLEGE OF ENGINEERING

UNIVERSITY OF SOUTH FLORIDA • 1993/94 UNDERGRADUATE CATALOG

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 three areas: *Professional Engineering, Applied Science, and Technology*. 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 Engineering (B.S.E.)
(various options available including General Engineering)
- 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.)
- Bachelor of Science in Engineering Science (B.S.E.S.)
(various options available)

The Accreditation Board for Engineering and Technology, Inc. (ABET), formerly the Engineers' Council for Professional Development, has inspected and accredited the curricula 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 Computer Science Accreditation Commission (CSAC) of the Computing Sciences Accreditation Board (CSAB), a specialized accrediting body recognized by the Council on Post-secondary Accreditation (COPA) and the U.S. Department of Education.

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 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 marked for the attention of the following:

Area of Interest	Contact
Engineering Professional Programs, Engineering Science, Computer Science, Information Systems	Specific Department or Advising Office
Computer Service Courses	Department of Computer Science & Engineering

PROFESSIONAL ENGINEERING

The College of Engineering recognizes that modern engineering solutions draw on knowledge of several branches of engineering. It also recognizes that future technological 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 either at this or other institutions. It is becoming increasingly evident that a large segment of today's engineering professionals are involved in some form of post baccalaureate study. Engineers are earning advanced degrees to obtain the information and training necessary to meet effectively tomorrow's technological challenges. All are faced with the continuing problem of refurbishing and 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 activity: design, research, and the operation of complex technological systems. Students who are interested in advanced design or research should pursue the 5-Year Program leading to a Master of Science in Engineering degree. Other students interested more in operational responsibilities may wish to terminate their initial engineering education at the baccalaureate level.

Preparation for Engineering

Students planning to attend USF's College of Engineering should familiarize themselves thoroughly with the College's admissions standards and requirements, which 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 full 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. 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). The University of South Florida generally offers most required pre-engineering courses every semester.

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 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 transfer students should note that in addition to freshman and sophomore level courses, required junior level courses are given each semester thus permitting full continuity in studies for the student. Junior/community college students intending to pursue an engineering program at USF should contact the adviser at their institution and request a course equivalency list.

Although it is not mandatory, the College strongly recommends acquisition or personal access to a personal computer. For further details, contact the Associate Dean of Engineering - Computing Services.

The College of Engineering can assist students who are planning to obtain an Engineering degree from the University of South Florida and who have started their studies elsewhere in formulating a sound total program. Interested students should contact the College's Advising Office (813/974-2684) furnishing sufficient details to permit meaningful response.

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. A USF student may apply through the Advising Office in the College of Engineering.

To be considered for admission to the College of Engineering, an applicant must be accepted by the University as a degree-seeking student and be academically in good standing. Admission procedures and requirements are listed below.

Procedures for Applying to the College

- Students should complete and submit an Engineering Admissions Application to the College of Engineering, Advising Office.
 - Freshmen and Sophomores must submit copies of high school transcripts, SAT or ACT test scores to the College of Engineering, Advising Office. This is in addition to records requested by the University's Admissions Office.
 - Transfer applicants must furnish transcripts from previously attended institutions to the College of Engineering, Advising Office. This is in addition to transcripts sent to the University's Admissions Office.
 - Applicants whose native language is other than English must submit TOEFL scores to the College of Engineering. The minimum TOEFL score must be 550.
- Credentials must be received in the Engineering Advising Office 30 days prior to the date of applicable term. Failure to comply will result in the application being denied by the College of Engineering.
- Credentials will be held for one year. If application is not updated within that year, credentials must be re-submitted.

Engineering Admission Requirements

- Freshmen:
 - Test Scores:
 - SAT-composite of 1050 minimum with a minimum quantitative of 550.
 - ACT-composite of 25 minimum and mathematics of 25 minimum.
 - High School Mathematics: Should include sufficient algebra and trigonometry to enter Engineering Calculus I. Math Placement Test must be passed to enter Calculus I.
 - High School Grade Point Average of 2.5/4.0.
- Transfer Students:

Transfer students must have completed the equivalent U.S.F. Engineering Calculus sequence with a 2.5 GPA; must have completed one year of equivalent U.S.F. General Physics and Chemistry courses with a minimum of 2.5 GPA; must have an overall GPA of 2.5 or better. Grades of "D" in these courses are not accepted by the College of Engineering.

Admission to Programs in Engineering

Once a student has been admitted to the College of Engineering, he/she must then seek admission into one of the specific departments. There are two methods by which a student may be admitted to a particular department: (1) Regular Departmental Admission (RDA), and (2) Direct Departmental Admission (DDA). Each is described below.

Admission to the College of Engineering does not imply that the student has been accepted as a degree-seeking student by a specific Engineering department. Due to limited facilities and resources, it is necessary for students to apply formally for acceptance by a specific Engineering department.

The minimum requirements for acceptance by the departments administering the Engineering programs in Chemical, Civil, Computer, Electrical, Industrial and Mechanical Engineering are:

- Completion of English, Calculus, Differential Equations, Physics and Chemistry requirements with a grade of "C" or better in each required course.
- Satisfactory completion of EGN 1002 - Engineering Orientation.
- Completion of the following courses with either: (1) a grade of "C" or better in each course on first attempt, or (2) a cumulative grade point average of 2.2 in these courses based on all attempts. No grades below a "C" accepted:
 - EGN 2210 - Fortran 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 and 2 above and:

- Completion of:
 - COP 3002 & COP 3000L - Intro to Computer Science and Lab
 - EGN 3311 - Statics
 - EGN 3343 - Thermodynamics I
 - EGN 3373 - Introduction to Electrical Systems I
 - EGN 3443 - Engineering Statistics I
 with a minimum of "C" on the first attempt.
- 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

- COT 3100 - Discrete Structures
 - EGN 3373 - Introduction to Electrical Systems I
 - STA 4442 - Introduction to Probability
 - COP 3002 & COP 3000L - Intro to Computer Science and Lab
- Students who fail to obtain a "C" grade on the first attempt must obtain a cumulative 2.2 G.P.A. based on all attempts.

Prior to being admitted to a department, a student may be permitted to take no more than two departmental engineering courses.

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:

- Admission to the College of Engineering
- High School Students: SAT scores of 500 Verbal and 600 Mathematics, a cumulative total of 1100; ACT scores of 26 Mathematics, a combined average score of 26.
- Transfer Students: Successful completion of the following 17 hours of courses with a minimum grade point average of 3.30. (Grades 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 3281 - Engineering Calculus I	3
MAC 3282 - Engineering Calculus II	3
MAC 3283 - Engineering Calculus III	3
PHY 3048 - General Physics I & Lab	3+1
And Either:	
PHY 3049 - General Physics II & Lab	3 + 1
or:	
CHM 2041 - 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.

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 had upon request.

*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 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, fluid 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 of Engineering (M.E.), and the Doctor of Philosophy in Chemical Engineering (Ph.D.) degrees.

The Chemical Engineering Department also offers a sequence of courses in biotechnology and biomedical engineering. Biotechnology is largely involved in the utilization of living organisms to produce or eliminate a variety of products (e.g., pharmaceuticals, food, and fertilizers).

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 contact the Chemical Engineering Department for more information on these programs.

Civil Engineering and Mechanics

This department offers coursework and study pertinent to Civil Engineering, Engineering Mechanics, Materials Science, and Environmental Engineering. Topics included are structural analysis,

design and optimization; metals, polymers, ceramics; solid and fluid mechanics, stress analysis, vibrations, continuum mechanics, finite element techniques, numerical methods; geotechnical engineering; transportation engineering; water resources engineering, environmental engineering, and coastal engineering. The department administers the Bachelor of Science in Civil Engineering (B.S.C.E.) and has a policy of mandatory academic advising of students for each school term. It also administers the Master of Science in Civil Engineering (M.S.C.E.) program, and a design oriented professional engineering Master of Civil Engineering (M.C.E.) program. These Master's programs can be completed with all evening coursework. As applicable, the department administers the M.S.C.E., M.S.E., M.C.E., M.E., M.S.E.S. and the Ph.D. in Civil Engineering programs. The Department of Civil Engineering and Mechanics has a policy of mandatory academic advising of students for each school term.

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, database systems, theory of computation and artificial intelligence.

The Department administers the baccalaureate degree programs in Computer Science, Computer Engineering and Information Systems; the 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 expert systems, 3) software engineering, and 4) graphics/image processing/computer vision.

Computing facilities available to students in the Department include several microprocessors and design laboratories for hardware-oriented studies, several personal computer laboratories for general use in programming assignments, and a substantial number of graphics-oriented personal computers. The Department also runs a research-oriented network consisting of Intel Hypercube, TI Explorer, a number of AT&T 3B2 machines, a number of SUN 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, electromagnetics, controls, solid state, systems analysis, digital circuit design, etc. Basic concepts are augmented with well-equipped laboratories in networks, electronics, digital systems, electromechanics, 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 *Electrical Engineering option (program)* of the Bachelor of Science in Engineering (B.S.E.) degree program, 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 is also available to evening and off-campus students. As applicable, the department administers the M.S.E.E., 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.), 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.), Bachelor of Science in Engineering (B.S.E.), Master of Science in Mechanical Engineering (M.S.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 have found employment in research, design, production, marketing, service, installation (contracting), maintenance and operation in such industries as mining, petroleum, paper, food, power, manufacturing, air-conditioning, defense systems, aerospace, data processing and communications.

Laboratories are available for basic instrumentation, thermal and fluid sciences, solid mechanics, data acquisition and control, CAD/CAE, vibrations, robotics and aerodynamics. A minimum GPA of 2.2 is required in all departmental courses for the awarding of a B.S.M.E. degree and only one "D" grade in departmental courses is allowed.

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 specialization studies and a professional career can be based. Emphasis is placed on five 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:

Non-technical Courses	30 Sem. Hrs.
(Social Sciences, Humanities, Communications)	
Mathematics, Chemistry and Physics	35 Sem. Hrs.
(Minimum)	
Basic Engineering Science (Minimum)	36 Sem. Hrs.
Department Specialization	35 Sem. Hrs.
	136 Sem. Hrs.

Special requirements exist for Chemical Engineering. Students selecting this field should make sure they familiarize themselves with these. Detailed information can be obtained from the responsible department or the College's Advising Office.

1. Non-Technical Requirements

Prospective Engineering majors must take six hours of Freshman English (ENC 1101, 1102) in their first two semesters.

Additional coursework in this category is required as specified in the individual curricula printed on pages which follow.

Students are advised to check the College of Engineering's list of "Approved Social Sciences and Humanities Courses" before enrolling. If a student desires credit for a course not on the list, she/he must obtain approval in writing from his/her engineering department chairperson (or approved representative) prior to enrollment. In no case will credits be allowed for courses taken on an S/U basis. A minimum of eight credit hours of this coursework must be of 2000 level or higher. At least six credit hours must be taken in each of the Humanities/Fine Arts area and the Behavioral and Social Sciences area (to meet the University's General Distribution Requirements). In selecting courses to meet the minimum requirements in the Social

Sciences and Humanities each student should pick at least three hours of work which will satisfy 6A-10.30 (the "Gordon Rule"). It is required by ABET that non-technical studies have at least two courses (6 hours) taken in the same subject area in either Humanities/Fine Arts or Social Sciences. Students transferring from other colleges without having met ABET depth and breadth requirements must take additional Social Sciences/Humanities courses at USF to meet this requirement.

It is desirable that at least 24 hours of this coursework be taken in the first two years. Students are responsible for checking with their advisers to be sure that the specific courses they are taking meet the requirements of the Bachelor of Science in Engineering degree program. Students who transfer from a State of Florida community college with an Associate of Arts degree who have met that college's General Education Requirement will normally find that their General Education coursework satisfies the major portion - but not all - of the Social Sciences and Humanities core requirement.

Credit by Examination can be obtained for some of this coursework. CLEP General Examination credit, acceptable to the University, is accepted for the areas of English Composition, Humanities and Social Sciences. Credit for CLEP Subject Examinations and CEEB Advanced Placement Tests can be accepted when the subject covered is recognized to be equivalent to USF courses on the College of Engineering "Approved Social Sciences and Humanities Courses" list. Questions in this area should be directed to the Coordinator of Engineering Advising in the College's Advising Office.

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 student's selective field of specialization, as specified by the department. In the science coursework students must take the Physics with Calculus sequence and the General Chemistry sequence.

Students whose high school preparation is insufficient to enter the Calculus for Engineers are required to take supplementary algebra and trigonometry prior to being considered for acceptance into the College. All students must take the math placement test.

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.

All but 6 credit hours of the engineering core are common to all areas of specialization (option) of the Bachelor of Science in Engineering and the Bachelor of Science in a Designated Engineering Field degree programs. The remaining 6 credit hours of coursework must be chosen with the concurrence of the departmental adviser to fit the field selected by the student. Details on this selection are available in the departmental office of the field selected, or in the College's Advising Office.

■ FOUR-YEAR PROGRAM - BACHELOR OF SCIENCE IN ENGINEERING DEGREE AND 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. General

All departments of the College of Engineering offer the general option of the Bachelor of Science in Engineering degree. This program consists of the basic engineering core of approximately 100 semester hours plus additional credits to produce a total of 136, in a designated field of specialization. This program is tailored to meet needs of students who have very specific goals and wish to deviate from a prescribed disciplinary program. Since the program is tailored for individual students a curriculum cannot be published and, therefore, it cannot be accredited. Because of this it is not recommended for most students. Nevertheless, it can be a valuable program for students with special needs.

Pre-medical students may elect this option. It accommodates up to 32 hrs. of special pre-med coursework (Biology, Organic Chemistry, etc.) selected by student and adviser to meet normal admissions requirements of medical schools.

Pre-law students find this option permits a strong technical and legal undergraduate academic preparation.

2. 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 and/or case study as part of their program. Students in the biotechnology/biomedical option 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. Modern societal problems and technology have required the Chemical Engineering "know-how" to be applied in the biotechnology/biomedical and environmental areas. These fields depend on the chemical engineer, among others, for solutions. 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 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

Semester I		
ENC 1101	Freshman English I	3
MAC 3281	Engineering Calculus I	3
CHM 2041	General Chem. I	3
EGN 1002	Engineering Orientation	0
Social & Behav. Science Elective		3
Humanities Elective		3
		15

Semester II		
ENC 1102	Freshman English II	3
MAC 3282	Engineering Calculus II	3
CHM 2046	General Chem. II	3
CHM 2045L	Gen Chem I Lab	1
PHY 3048	General Physics I	3
PHY 3048L	Gen. Physics Lab I	1
Humanities Elective		3
		17

Suggested Summer Term

MAC 3283	Engineering Calculus III	3
MAP 4302	Differential Equations	3
CHM 2046L	Gen. Chem II Lab	1
PHY 3049	Gen. Physics II	3
PHY 3049L	Gen. Physics Lab II	1
		11

Semester III

EGN 3311	Statics	3
EGN 3373	Electrical Systems I	3
EGN 2210	FORTAN	3
EGN 3343	Thermodynamics I	3
EGN 3443	Statistics	3
Social Science Elective		3
		18

Semester IV

EGN 4450	Intro. to Linear Systems	2
EGN 3365	Materials	3
EML 3303	Mec Eng Lab I	3
ECH 3702	Instrument Systems I	4
ECH 3023	Intro. to Process Eng	3
Social Science Elective		3
		18

Semester V

ECH 3264	Transport Processes I	3
ECH 3264	Transport Processes I Lab	0
ECH 4123	Phase & Chemical Equilibria	3
CHM 3210	Organic Chemistry I	4
CHM 3210L	Organic Chemistry I Lab	1
CHM 4412	Physical Chemistry III	3
		14

Semester VI

ECH 4265	Transport Processes II	3
ECH 4265	Transport Processes II Lab	0
CHM 3211	Organic Chemistry II	4
ECH 4605C	Process Eco & Opt	3
Technical Elective		3
Liberal Arts Elective		3
		16

Semester VII

EMC 4314	Automatic Controls I	3
ECH 4415	Reacting Systems	3
ECH 4415	Reacting Systems Lab I	0
EMC 4522L	Chem. & Mech. Lab II	2
Technical Elective		3
Chemistry Elective		4
		15

Semester VIII

ECH 4615	Plant Design and Economics	3
Technical Electives		7
Liberal Arts Elective		2
		12

3. Civil Engineering

Students pursuing the Bachelor of Science in Civil Engineering program take designated traditional civil engineering and engineering mechanics coursework in solid mechanics, stress analysis, structures, materials, hydraulics, geotechnical, transportation, and engineering analysis. This coursework is supplemented by courses in one of the following areas of concentration, plus electives.

- Environmental/Water Resources - courses in water treatment, waste water treatment, air pollution control and water resources.
- Geotechnical/Transportation - courses in soil mechanics, foundations, transportation, and surveying.
- Materials - courses in engineering materials, polymers, corrosion control and materials processes.

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d. Structural Engineering - courses in structural analysis and design, composite structures, using matrix and computer techniques.

Students completing this option enter careers as engineers in the civil, structural, geotechnical, transportation and water resources, environmental, hydraulics, materials, disciplines. All of these fields share the need for knowledge in the areas of engineering mechanics, civil engineering, and materials science. Through choice of the proper area of concentration the student has the opportunity to channel academic studies specifically towards his/her career choice. Civil Engineering students commence their engineering careers in either industry, in engineering consulting firms, or in public service at the federal, state or local level. Initial assignments include planning, design and implementation of water resources, transportation and housing systems; regional planning, design and management for abatement of air, water, and solid waste pollution problems; design of bridges, single and multistory structures; and supervision of construction projects.

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.

Additional graduation requirements are 1) graduating seniors must take the Fundamentals of Engineering Examination and 2) students are allowed to graduate with one "D" grade in Engineering courses.

Bachelor's Curricula - Civil Engineering Option

Semester I		
ENC 1101	Freshman English I	3
MAC 3281	Engr. Calculus I	3
CHM 2041	General Chemistry I	3
EGN 1002	Engr. Orientation	0
EGS 1113	Intro. Design Graphics	3
Approved Social Science Elective		3
		15

Semester II		
ENC 1102	Freshman English II	3
MAC 3282	Engr. Calculus II	3
CHM 2046	General Chemistry II	3
CHM 2045L	Gen. Chemistry I Lab	1
PHY 3048	General Physics I	3
PHY 3048L	Gen. Physics I Lab	1
Approved Social Science Elective		3
		17

Semester III		
PHY 3049	General Physics II	3
PHY 3049L	Gen. Physics II Lab	1
MAC 3283	Engr. Calculus III	3
EGN 2210	FORTAN for Engineers	3
EGN 3311	Statics	3
Approved Humanities Elective		3
Approved Social Science Elective		3
		19

Semester IV		
MAP 4302	Differ. Equations	3
EGN 3365L	Materials Engr. I	3
EGN 3373	Intro to Elec. Sys. I	3
EGN 3343	Thermodynamics I	3
EGN 3443	Engr. Statistics I	3
Approved Humanities/Social Science Elective		3
		18

Semester V		
EGN 3353C	Basic Fluid Mech.	3
EGN 3321	Dynamics	3
EGN 3331	Mechanics of Materials	3
EGN 3331L	Mech. of Materials Lab	1
ENV 3001	Environmental Engineering	3

EGN 4420	Num. Mthds. of Analysis	2
Approved Humanities Elective		3
		18

Semester VI		
CES 3102	Structures I	3
CWR 4202	Hydraulics	3
TTE 4004	Transportation Engr. I	3
CEG 4011	Soil Mechanics I	3
CEG 4211	Geotech Lab	1
GLY 3830	Geology for Engrs.	3
		16

Semester VII		
EGN 3613	Engineering Economy	3
CES 4605	Concepts of Steel Design	3
CES 4702	Concepts of Concrete Design	3
ENC 3210	Technical Writing	
	OR	3
ENC 3213	Professional Writing	
C.E. Design Requirement		2
C.E. Concentration Requirement		3
		17

Semester VIII		
CGN 3021L	C.E. Lab	2
CGN 4122C	Engr. Contracts Specs. & Ethics	3
C.E. Design Requirement		2
C.E. Concentration Requirement		3
C.E. Concentration Requirement		3
Approved Liberal Arts Exit		3
		16

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
SUR 3140C	Engineering Land Surveying	3

Materials		
EGN 4366	Materials Engineering II	3
EMA 4324	Corrosion of Engineering Materials	3
EMA 4703	Failure Analysis & Prevention	3

Structural		
CES 4141	Matrix Structural Analysis	3
CES 4820	Timber & Masonry Design	3
CES 4561		
Computer Aided Structural Design		3

Civil Engineering Design Requirements

(A student must complete a minimum of 4 hours with at least 1 course from the same area of concentration selected for 2 concentration requirements.)

Environmental/Water Resources		
CWR 4810	Hydraulic Design	2
ENV 4432	Water Systems Design	2
CGN 4914	Senior Project	2

Geotechnical/Transportation		
CEG 4801	Geotechnical Design	2
TTE 4821	Transportation Systems Design	2
CGN 4914	Senior Project	2

Materials		
CGN 4851	Cement and Concrete Design	2
EMA 4704	Selection and Application of Materials	2
CGN 4914	Senior Project	2
Structural		
CES 4618	Structural Design-Steel	2
CES 4704	Structural Design-Concrete	2
CGN 4914	Senior Project	2

Environmental Engineering Concentration Within Civil Engineering

Semester I

ENC 1101	Freshman English I	3
MAC 3281	Engr. Calculus I	3
CHM 2041	General Chemistry I	3
EGS 1113	Intro. to Des. Graphics	3
EGN 1002	Engr. Orientation	0
Approved Humanities Elective		3
Approved Social Science Elective		3
		18

Semester II

ENC 1102	Freshman English II	3
MAC 3282	Engr. Calculus II	3
CHM 2046	General Chemistry II	3
PHY 3048	General Physics I	3
PHY 3048L	General Physics I Lab	1
Approved Humanities Elective		3
		16

Semester III

MAC 3283	Engr. Calculus III	3
PHY 3049	General Physics II	3
PHY 3049L	General Physics II Lab	1
EGN 2210	FORTAN for Engineers	3
EGN 3311	Statics	3
GLY 3830	Geology for Engineers	3
Approved Social Science Elective		3
		19

Semester IV

MAP 4302	Diff. Equations	3
EGN 3343	Thermodynamics I	3
EGN 3373	Intro. to Elect. Sys. I	3
EGN 3443	Engr. Statistics I	3
EGN 3365L	Materials Engr. I	3
Approved Humanities/Social Science Elective		3
		18

Semester V

EGN 3321	Dynamics	3
EGN 3331	Mechanics of Materials	3
EGN 3331L	Mech. of Matls Lab	1
EGN 3353C	Basic Fluid Mechanics	3
ENV 3001	Environmental Engr	3
PAD 3003	Intro Pub Admin	3
		16

Semester VI

CES 3102	Structures I	3
CWR 4202	Hydraulics	3
ENV 4502	Environmental Unit Operation	3
CEG 4011	Soil Mechanics I	3
ECH 3023	Intro. to Process Engr.	3
ENV 4004	Env. Engr. Laboratory	1
CEG 4211	Geotech. Laboratory	1
		17

Semester VII

EGN 3613	Engr Economy I	3
CES 4605	Concepts of Steel Design	3

CES 4702	Concepts of Concrete Design	3
ENC 3213	Professional Writing	
	or	3
ENC 3210	Technical Writing	
ENV 4552	Unit Ops. & Processes Lab	1
ENV 4503	Env. Unit Processes	3
ENV 4432	Water Systems Design	2
		18

Semester VIII

Approved Liberal Arts Exit Elective		3
CGN 4122C	Engr. Contracts Specs. and Ethics	3
ENV 4101	Air Pollution Control	3
TTE 4004	Transportation Engr. I	3
ENV 4531	Wastewater Systems Design	2
		14

4. Computer Science and Engineering

Two undergraduate programs are offered within Computer Science and Engineering. They are: the Computer Engineering program (leading to a Bachelor of Science in Computer Engineering) and the Computer Science program (leading to a Bachelor of Science in Computer Science).

The Computer Engineering program emphasizes the design and utilization of computers and has a core of engineering and basic science courses like those of other engineering programs outside the Department of Computer Science and Engineering. The Computer Science program deals with the fundamental and formal aspects of computation.

Graduates from these programs follow fruitful careers in either scientific or business application 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 also to develop communications abilities and clear perceptions in the social sciences and the humanities. 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, robotics, 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 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 of Science in Computer Science Curriculum

Semester I

EGN 1002	Engr. Orientation	0
MAC 3281	Engr. Calculus I	3
Science Elective		3
ENC 1101	Freshman English I	3
Social Science/Humanities Elective		6
		15

Semester II

MAC 3282	Engr. Calculus II	3
PHY 3048	Physics I	3
PHY 3048L	Physics I Lab	1
Science Elective		3
ENC 1102	Freshman English II	3
Social Science/Humanities Elective		3
		16

Semester III (Summer)

PHY 3049	Physics II	3
PHY 3049L	Physics II Lab	1

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MAC 3283 Engr. Calculus III 3
Social Science/Humanities Elective 3
10

Semester IV

EGN 3373 Elect. Sys. I 3
COT 3100 Intro. to Discrete Structures 3
ENC 3210 Tech. Writing 3
EGN 3613 Engr. Economy 3
MAP 4302 Diff. Equations 3
15

Semester V

Science Elective 3
STA 4442 Intro. to Probability 3
MAS 3103 Linear Algebra 3
COP 3002 Intro to Computer Science 3
COP 3000L Intro to Computer Science Lab 1
Social Science/Humanities Elective 3
16

Semester VI

EEL 4851C Data Structures 3
EEL 4705 Logic Design 3
EEL 4705L Logic Design Lab 1
COP 3010 Programming Concepts 3
COP 3510 Introduction to Computer Sci. 3
Social Science/Humanities Elective 3
16

Semester VII

CDA 4100 Computer Organization and Architecture 3
COP 4400 Computer Systems 3
COT 4210 Intro. to Automata Theory & Formal Languages 3
Free Elective 3
Computer Science Elective 3
15

Semester VIII

EEL 4744 Microprocessor Principles & Applications 3
EEL 4743L Microprocessor Lab 1
COP 4600 Intro. to Sys. Prog. 3
COT 4400 Analysis of Algorithms 3
Computer Science Elective 3
Free Elective 2
15

Semester IX

CEN 4020 Software Engr. 3
CIS 4250 Computer Ethics 1
Technical Elective 3
Computer Science Electives 9
16

Bachelor of Science in Computer Engineering Curriculum

Semester I

EGN 1002 Engr. Orientation 0
MAC 3281 Engr. Calculus I 3
CHM 2041 General Chemistry I 3
CHM 2045L General Chemistry I Lab 1
ENC 1101 Freshman English I 3
Social Science/Humanities Elective 6
16

Semester II

MAC 3282 Engr. Calculus II 3
PHY 3048 General Physics I 3
PHY 3048L General Physics I Lab 1
ENC 1102 Freshman English II 3
CHM 2046 General Chemistry II 3
Social Science/Humanities Elective 3
16

Semester III

PHY 3049 General Physics II 3
PHY 3049L General Physics II Lab 1
MAC 3283 Engr Calculus III 3
Social Science/Humanities Elective 3
10

Semester IV

EGN 3373 Elect. Sys. I 3
COT 3100 Intro. to Discrete Structures 3
MAP 4302 Diff. Equations 3
EGN 3343 Thermo I 3
EGN 3311 Statics 3
ENC 3210 Tech. Writing 3
18

Semester V

EEL 3302 Electronics I 3
EGN 3321 Dynamics 3
COP 3002 Intro to Computer Science 3
COP 3000L Intro to Computer Science Lab 1
EGN 4450 Intro to Linear Systems 2
EGN 3443 Engr. Statistics I 3
15

Semester VI

EGN 3365L Materials Engr. I 3
EEL 4851C Data Structures 3
EGN 3613 Engr. Economy I 3
EEL 4705 Logic Design 3
EEL 4705L Logic Design Lab 1
EEL 4305 Electronics II 3
16

Semester VII

CDA 4100 Computer Organization & Architecture 3
COP 4400 Computer Systems 3
COT 4210 Intro. to Automata Theory & Formal Languages 3
Social Science/Humanities Elective 3
Computer Engineering Elective 3
15

Semester VIII

EEL 4744 Microprocessor Principles and Applications 3
EEL 4743L Microprocessor Lab 1
COP 4600 Intro. to Sys. Prog. 3
Social Science/Humanities Elective 3
Computer Engineering Elective 6
16

Semester IX

EEL 4748 Microprocessor Based System Design
and Application 3
CDA 4203 Comp. Sys. Design 3
CIS 4910 Comp. Engr. Project 2
Computer Engineering Elective 3
CIS 4250 Computer Ethics 3
14

Bachelor of Science in Information Systems Curriculum

Semester I

ENC 1101 Freshman English I 3
MAC 3233 or 3281 Calculus I 3
ACG 2001 Elem. Accounting I 3
Science Elective 3
Humanities/Social Science Elective 3
15

Semester II

ENC 1102 Freshman English II 3
MAC 3234 or 3282 Calculus II 3

PHY 3053 or 3048	Physics I	3
PHY 3053L or 3048L	Physics I Lab	1
ACG 2011	Elem. Accounting II	3
Humanities/Social Science Elective		3
		16

Semester III (Summer)

PHY 3054 or 3049	General Physics II	3
PHY 3049L or 3054L	Physics II Lab	1
EGN 2210	FORTTRAN for Engr.	2
Science Elective		3
		9

Semester IV

COT 3100	Intro. to Discrete Structures	3
COP 3120	COBOL Programming I	3
ECO 2023	Economic Principles (Microeconomics)	3
STA 3023	Intro. to Statistics	3
Humanities/Social Science Elective		3
		15

Semester V

COP 3002	Intro. to Computer Science	3
COP 3000L	Intro. to Computer Science Lab	1
MAS 3103	Linear Algebra	3
ECO 2013	Economic Principles (Macroeconomics)	3
Humanities/Social Science Elective		6
		16

Semester VI

EEL 4851C	Data Structures	3
EEL 4705	Logic Design	3
MAN 3025	Principles of Mgmt	3
CEN 4020	Software Engr.	3
COP 3510	Programming Concepts	3
		15

Semester VII

COP 4400	Computer Systems	3
EEL 4852C	Data Base Systems	3
ENC 3210	Technical Writing	3
XXX 0000	Software Engr. II	3
Business Elective		3
		15

Semester VIII

COP 4600	Systems Programming	3
ESI 4312	Operations Rsch. I	3
EEL 4781C	Dist. Proc. & Computer Networks	3
XXX 0000	Fourth Generation Lang	3
XXX 0000	SW Tools & Metrics	3
Humanities/Social Science Elective		2
		17

Semester IX

CIS 4910	Computer Science Project	2
XXX 0000	Computer Simulation	3
CIS 4250	Computer Ethics	3
Business Elective		3
Information Systems Elective		4
		15

5. Electrical Engineering

Students pursuing the *Electrical Engineering option* of the Bachelor of Science in Engineering program or 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**

ENC 1101	Freshman English I	3
CHM 2041	Gen. Chem. I	3
CHM 2045L	Gen. Chem. Lab	1
MAC 3281	Engr. Calculus I	3
EGN 1002	Engr. Orientation	0
Approved Non-technical Elective		3
Approved Non-technical Elective		3
		16

Semester II

ENC 1102	Freshman English II	3
CHM 2046	Gen. Chem. II	3
PHY 3048	Gen. Phys. I	3
PHY 3048L	Gen. Phys. I Lab	1
MAC 3282	Engr. Cal. II	3
EGN 2210	FORTTRAN for Engrs.	3
Approved Non-Technical Elective		2
		18

Semester III

PHY 3049	Gen. Phys. II	3
PHY 3049L	Gen. Phys. II Lab	1
MAC 3283	Eng. Calculus III	3
Approved Non-technical Elective		4
EGN 3311	Statics	3
EGN 3613	Egr. Economy I	3
		17

Semester IV

MAP 4302	Differ. Equations	3
EGN 3321	Dynamics	3
EGN 3373	Intro. to Elec. Sys. I	3
EGN 3443	Engr. Statistics I	3
PHY 3101	Modern Physics	3
EGN 3343	Thermodynamics I	3
		18

Semester V

EEL 3302	Electronics I	3
EGN 4450	Intro. to Linear Systems	2
EGN 3375	Intro. to Elec. Systems III	3
EEL 3100	Network Analysis & Design	3
EEL 3410	Fields & Waves I	3
Approved Non-technical Elective		4
		18

Semester VI

EEL 4102	Linear Systems Analysis	3
EEL 4351C	Semiconductor Devices	3
EEL 4411	Fields & Waves II	3
ELR 3301L	Lab I	1
EGN 3365L	Materials Engineering I	3
Upper-level Comm. Course		3
		16

Semester VII		
EEL 4512	Intro. to Communication Systems	3
EEL 4305	Electronics II	3
EEL 4705	Logic Design	3
EEL 4705L	Logic Lab	1
ELR 3302L	Lab II	1
EEL 4163	Computer Aided Design & Analysis	2
Approved Non-technical Elective		4
		17

Semester VIII		
EEL 4744	Microprocessor Principles & Applications	3
EEL 4743L	Microprocessor Lab	1
EEL 4657	Lin. Control Sys.	3
EEL 4906	Design Project	2
ELR 4306L	Lab IV	1
Technical Elective		3
Technical Elective		3
		16

6. Industrial 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 governmental administration.

The current departmental policy is to allow only one "D" in each of the following categories: non-technical core, mathematics-science core, and engineering core. No "D" grades are allowed for any of the upper division Industrial Engineering courses (prefix EIN and ESI).

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 3281	Engr. Calculus I	3
CHM 2041	General Chemistry I	3
EGN 1002	Engr. Orientation	0
EGS 1113	Intro. to Design Graphics	3
Humanities		3
Social Science		3
		18

Semester II		
ENC 1102	Freshman English II	3
MAC 3282	Engr. Calculus II	3
CHM 2046	General Chemistry II	3
CHM 2045L	Gen. Chemistry I Lab	1
PHY 3048	General Physics I	3
PHY 3048L	Gen. Physics I Lab	1
EGN 2210	FORTAN for Engineers	3
		17

Semester III		
PHY 3049	General Physics II	3
PHY 3049L	Physics II Lab	1

MAC 3283	Engr. Calculus III	3
EGN 3365L	Materials Engineering I	3
EGN 3311	Statics	3
EGN 3443	Eng. Statistics I	3
Approved Communication Course		3
		19

Semester IV		
MAP 4302	Differ. Equations	3
EGN 3373	Intro. to Electrical Systems I	3
EGN 3613	Engineering Economy I	3
EGN 3321	Dynamics	3
EGN 3343	Thermodynamics I	3
Approved Non-technical Elective		3
		18

Semester V		
EGN 4450	Intro. to Linear Systems	2
EIN 4312L	Work Analysis	3
EGN 3375	Intro. to Electrical Systems III	3
EIN 4411L	Manufacturing Processes	3
ACG 3074	Managerial Acct. for Engineers	3
ESI 4224	Design of Experiments	3
		17

Semester VI		
ESI 4312	Deterministic O.R.	3
ESI 4313	Probabilistic O.R.	3
ESI 4221	Industrial Statistics & Quality Control	3
EIN 4364L	Plant Facilities Design I	3
EGN 3353C	Basic Fluid Mechanics	3
Science Elective		3
		18

Semester VII		
ESI 4911	Senior Project	2
EIN 4333	Production Control	3
EIN 4313L	Human Factors	3
ESI 4523	Ind. Syst. Stimulation	3
Approved Humanities Elective		3
		14

Semester VIII		
EIN 4601	Automation and Robotics	3
ESI 4523	Ind. Syst. Simulation	3
EIN 4365L	Facility Design II	3
Technical Elective		3
Approved Non-Technical Elective		3
		15

7. 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, controls, and fluid machinery. 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 option 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 career opportunities in this wide range of industries because mechanical equipment is required in all aspects of industrial production.

Bachelor's Curriculum Mechanical Engineering

Semester I		
ENC 1101	Freshman English I	3
MAC 3281	Engineering Calculus I	3
CHM 2041	General Chemistry I	3
EGS 1113	Intro. to Design Graphics	3
Social & Behav.	Science Elective	3
		15
Semester II		
ENC 1102	Freshman English II	3
MAC 3282	Engineering Calculus II	3
CHM 2046	General Chemistry II	3
CHM 2045L	General Chemistry I Lab	1
PHY 3048	General Physics I	3
PHY 3048L	General Physics I Lab	1
Humanities Elective		3
		17
Required Summer Term		
MAC 3283	Engineering Calculus III	3
CHM 2046L	General Chemistry II Lab	1
PHY 3049	General Physics II	3
PHY 3049L	General Physics II Lab	1
EGN 2210	FORTRAN for Engineers	3
		11
Semester III		
EGN 3311	Statics	3
EGN 3443	Engr. Statistics	3
MAP 4302	Differential Equations	3
EGN 3343	Thermodynamics I	3
EGN 1002	Engineering Orientation	0
EGN 3373	Intro. to Electrical Systems I	3
		15
Semester IV		
EGN 4450	Intro. to Linear Systems	2
EGN 3321	Dynamics	3
EML 4106	Thermal Systems and Economics	3
EGN 3365L	Materials Engr. I	3
EGN 3375	Intro. Electrical Systems III	3
Social & Behav.	Science Elective	3
		17
Semester V		
EGN 3433	System Dynamics	3
EML 4041	Computer Simulation I	3
EML 3264	Kinematics and Dynamics of Machinery	3
EML 3500	Mach. Anal. and Des. I	3
Humanities/Social Science Elective		3
		15
Semester VI		
ECH 3702	Instrument Systems	4
EML 4503	Mach. Anal. and Des. II	3
EML 3701	Fluid Systems	3
Technical Writing Elective		3
Humanities Elective		3
		16
Semester VII		
EML 4142	Heat Transfer I	3
EML 3303	Mechanical Engineering Lab I	3
EML 4551C	Project Design I	3
Approved Technical Elective		3
Approved Technical Elective		3
Humanities/Soc Sci Elective		2
		17
Semester VIII		
EML 4302	Mechanical Engineering Lab II	3
EML 4312	Mechanical Controls	3
Approved Design Elective		3

Approved Technical Elective	3
Approved Technical Elective	1
	13

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 Distribution requirements of the University (or General Education requirements at other institutions), 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 normally find that their General Education coursework satisfies the major portion - but not all - of the Social Science and Humanities Core Requirements.

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 or Non-Technical Requirements; b) Basic Science Requirements (i.e., Math, Chemistry and Physics); c) Engineering Science Requirements; d) Specialization Requirements. All undergraduate students in the College of Engineering are expected to maintain the minimum grade-point average (GPA) for each category specified by the department responsible for the program pursued. In no case will the minimum GPA for a category be less than 2.0. Note that key courses, including but not limited to Freshman English, Calculus, Physics, Engineering, and Science courses in the student's areas of specialization, must be passed with a grade of "C" or better. The awarding of a baccalaureate degree also requires a minimum average of 2.0 or "C" for all engineering coursework of 3000-level or above attempted while registered in the College. Some programs may have higher requirements for certain categories. 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 "C" or better (i.e., receive grades of W, D, or F) will be denied further enrollment in the College of Engineering unless written permission is 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 (ABCD). 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 incoming students pursuing Bachelor of Science degree programs in Civil or Mechanical Engineering will be required to take the Engineering Intern 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 with a grade of "C" or better and when the first USF course following in sequence is also passed with a "C" grade or better. 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 graduate courses during the fourth year and deferring the taking of senior courses to the fifth year. The requirements of the combined degrees do not differ from those for the two degrees pursued separately.

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 the requirements for an undergraduate degree, such as Bachelor of Science in Chemical Engineering, and also meet the additional requirements of the Certificate program.

Chemistry/Biology (10 hours min.)

BSC 2010 Biology II - Cellular Processes*

BCH 3023 Biochemistry**

One of the following Organic Chemistry sequences:

CHM 3210 Organic Chemistry I*

CHM 3211 Organic Chemistry II*

CHM 3200 Organic Chemistry***

Other "human sciences" (6 hrs. min.)

PSY 3044 Experimental Psychology**

One of the following:

PET 3310 Kinesiology

PET 3351 Exercise Physiology I

EXP 4104 Sensory Processes

PSB 4013C Neuropsychology

(or approved substitute)

Engineering (9 hrs. min.****)

EEL 4935 Special Electrical Topics

ECH 5746 Intro to Biomedical Engineering

One or more of the following (to achieve 9 hrs. min. in area):

EIN 4313L Human Factors

EIN 5245 Work Physiology & Biomechanics

ECH 5747 Selected Topics in Chemical Engineering Biotechnology

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 in 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 15 (plus) 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, 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, PL/I, COBOL, PASCAL, BASIC, "C" 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 base 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. Conventional asynchronous links to the campus central facility will shortly be supplemented with an Ethernet link.

In addition to the network facilities, the College operates open access P.C. labs. Two are available for undergraduate engineering students; a third smaller lab is reserved for graduate students and faculty. Another open access P.C. lab is operated in conjunction with the Technology program.

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 the three VAX machines, an Ethernet with SUN and AT&T 3B2 machines, 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.

Florida Engineering and Industrial Experiment Station (USF)

The Florida Engineering and Industrial Experiment Station developed from early research activities of the engineering faculty at the University of Florida and was officially established in 1941 by the Legislature. Its mandate is to "organize and promote the prosecution of research to such of these problems as are important to the industries of Florida." In 1977, the University of Florida extended the provisions of the Engineering and Industrial Experiment to the Engineering College of the University of South Florida and two other State engineering colleges. The Legislature continues to support this extension with appropriations. The four colleges of engineering now work together in a joint effort through EIES to assist industry with special problems that can be appropriately solved by engineering colleges. During the year 1990-91 a sponsored research volume of approximately 12 million dollars passed through EIES (USF). All departments, faculty as well as students, contribute to this research at the University of South Florida. This program is administered by the Engineering Associate Dean for Research. The direct exposure of students to real research needs of the State adds extra meaning and depth to the engineering education offered by the College.

STAC

(Southern Technology Applications Center)

STAC is one of NASA's six Regional Technology Transfer centers. Serving the Southwest United States, STAC is headquartered in Florida with offices in the College of Engineering at the University of South Florida and five other SUS universities. STAC's primary mission is to identify promising technologies developed by engineers and researchers in university and federal labs, and to facilitate their commercialization through private sector businesses. 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 necessary to compete in the global marketplace.

STAC teams with researchers, inventors, entrepreneurs, start-up companies and established firms in solving their business problems and overcoming their technical hurdles. STAC's team brings diverse professional experience to bear on client projects - including Electrical and Mechanical Engineering, Fluid Mechanics, Computer Technology, Marine Chemistry, Oceanography, Medicine and Dentistry, Biomedical Engineering, Laser Optics, Information Science, Transportation, Anthropology, Manufacturing Management, Systems Analysis, Marketing and Strategic Planning, International Trade and Economic Development. Other experts located in universities, government agencies and the 700+ federal labs nationwide are frequently brought in to complement STAC's in-house expertise. Services offered on a cost reimbursable basis include Feasibility Studies, Market Analysis, Team Building, Proposal Writing, Computerized Searching, Inventor Counseling, and Project Management.

The cornerstone of STAC's technology transfer capabilities is its Information Research Center (IRC). IRC searchers have logged over

200,000 hours of connect time in STAC's international array of more than 2,000 on-line databases that reference a half billion published articles, studies, patents, books and reports. They have assembled an extensive in-house library of journals, news bulletins and periodicals published by leading trade associations and special interest groups which provide data, statistics and news items that are often not distributed publicly. These research capabilities combined with rapid retrieval of documents enables STAC to efficiently locate critical technologies, marketing and business data, experts, facilities, and equipment to successfully complete project tasks.

As one of nine NASA Industrial Applications Centers, STAC also promotes the business benefits of the Space Program, from the ordinary procurement needs of the Agency to Small Business Innovation Research Grants (SBIR) for high tech research to microgravity experiments leading eventually to manufacturing in space. Capitalizing on our nation's most valuable renewable resource STAC also

promotes the pursuit of science and engineering careers through guest lectures to K-12 students who might eventually live and work in space.

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.

Each of the departments at the College of Engineering has a variety of specialized equipment available for use by students. The College of Engineering has a variety of specialized equipment available for use by students. The College of Engineering has a variety of specialized equipment available for use by students.

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COLLEGE OF FINE ARTS

UNIVERSITY OF SOUTH FLORIDA - 1993/94 UNDERGRADUATE CATALOG

The College of Fine Arts exists in the atmosphere of a comprehensive University. It provides opportunities for students to develop their interests and talents to the highest level possible and encourages them to do so whether they wish to commit to a life in the arts or, as a general interest, to develop appreciation and involvement in the arts. For these purposes, the College educates in the practice of creating, performing, presenting and understanding theatre, music, dance and the visual arts. Our mission is three-fold:

1. Teaching the disciplines for creating, performing, presenting and understanding the arts. This is done by providing the full range of educating experiences that prepare students to:
 - a. Practice an art as a full time life commitment;
 - b. Practice an art as an important element of the individual's life commitment;
 - c. Appreciate the arts as important life enrichers.
2. Creating and researching the arts:
 - a. To expand horizons and explore new dimensions in the arts;
 - b. To contribute to the expansion of general knowledge and information about the arts;
 - c. To improve the teacher's own effectiveness with students.
3. Serving the public by providing cultural enrichment and expertise. In recognition of its academic and artistic achievements the College of Fine Arts has been given program of emphasis status by the Board of Regents of the State University System. The college offers degree programs and courses in art, dance, music and theatre. In addition, it also offers courses in music education and art education in cooperation with the College of Education.

An Arts-Filled Environment

Recognizing the importance of experiencing the arts beyond the classroom and studio, the College of Fine Arts offers its students, the university community, and the Tampa Bay area numerous performances and exhibitions. These provide a broad variety of experiences, ranging from the traditional to the most avant-garde. From these experiences the student can build awareness of the large array of options available to the artist, and the public can discover the varied opportunities for enjoying the arts. In addition to the presentation of work by our faculty and students, artists of international prestige are periodically in residence giving seminars and workshops and interacting with students and faculty. Through this presence, different perspectives are introduced and the artists' presentations in performance or exhibition expand the cultural horizons of all in attendance. Lists of visiting artists and performing organizations appear in this catalog under Art, Dance, Music, and Theatre Departments/School. These units in the College of Fine Arts are responsible for the educational activities which directly benefit students.

BACCALAUREATE-LEVEL

DEGREE PROGRAMS

Programs Leading to the Baccalaureate Degree

The College of Fine Arts offers programs leading to the Bachelor of Arts degree in the fields of Art, Dance, and Theatre, a Bachelor of Fine Arts degree in Theatre, a Bachelor of Music degree in Music, and a Bachelor of Science in Music Education.

Admission to the College

A freshman student may elect to enter the College of Fine Arts as a major in one of the four departments as early as his/her initial entry into the University provided he/she has successfully completed an audition or portfolio review in the appropriate departments/school. At that time, the new freshman should file a Declaration of Major or Change of Curriculum code form indicating the choice of degree program within the College of Fine Arts. However, any continuing student in the University in good standing, upon acceptance by the department/school, can apply to change from another major to a major in the College of Fine Arts.

The student desiring to make this change must initiate a Change of Major form in the college of the present major and transfer his/her current academic records to the College of Fine Arts' 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 and meet appropriate portfolio or audition requirements when seeking admission to the College of Fine Arts. These students are urged to make early arrangements for any 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, portfolio review and/or audition appointments. Additional information may be obtained and appointments may be made by telephoning or writing the College's advising office or the office of the department/school of particular interest.

Advising in the College

The College of Fine Arts operates a central advising office located in the Fine Arts Building. It maintains the records of all major students in the College (art, dance, music, theatre) and provides ongoing academic advising, referral services and assistance to all present and potential students. Academic advisers are provided for each of the departments/school in the College.

Any student in the University, regardless of major, may enroll in courses offered by the College of Fine Arts when prerequisites are met and space is available. Where applicable, these courses may be used to satisfy elective or General Distribution Requirements.

In all cases, the responsibility for meeting all graduation requirements rests entirely upon the student.

Graduation Requirements

The College of Fine Arts currently offers three undergraduate degrees, the Bachelor of Arts (B.A.), attainable in the Departments of Art, Dance, and Theatre, the Bachelor of Fine Arts (B.F.A.) in Theatre and the Bachelor of Music (B.M.) in Music. The University requirements are presented in detail elsewhere in this catalog, but are briefly summarized here along with the college and departmental requirements:

1. 120-124 credits for the B.A., 124-126 credits for the B.M., and 154 credits for the B.F.A. with at least a "C" average (2.0) in work done at the University of South Florida and in the major. At least 40 credits must be in courses numbered 3000 or above. Since 15 hours is considered a normal, full-time load, students are reminded that programs requiring more than 120 credit hours may require additional semesters for completion of the program.
2. General Distribution Requirements may be satisfied by (1) completing the University's General Distribution Requirements as explained in this catalog, (2) completing the A.A. degree from a Florida Junior 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 Distribution 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.
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 in their major area.
4. Special Fine Arts College Requirement: All majors in the College of Fine Arts must take at least 6 credit hours in one or more of the other departments/school of the College.
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 towards the B.A., B.M., or B.F.A. degree.
6. With departmental/school approval, a maximum of 4 credit hours of elective Physical Education credits taken at USF may be counted as general elective credit toward the B.A., B.M., or B.F.A. degree in the College of Fine Arts.

7. 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. Department Requirements:

Art Requirements: Completion of a minimum of 46 credit hours in the major, 19 credit hours of Free Electives (of which 16 hours in art may apply), and 9 hours of non-major credits which may be distributed at the discretion of the Art Department.

Dance Requirements: Completion of a minimum of 44 credit hours in the major, 21 credit hours of Free Electives (of which 17 hours in dance may apply), and 9 hours of non-major credits which may be distributed at the discretion of the Dance Department.

Music Requirements: Completion of a minimum of 84-86 hours in the major.

Music Education Requirements: For Instrumental Specialization, the completion of a minimum of 19 credit hours of Music Education courses and 52 credit hours of Music courses. For Vocal Specialization, the completion of a minimum of 15 credit hours of Music Education courses and 56 credit hours of Music courses.

Theatre Requirements: For the B.A., the completion of a minimum of 54-55 credit hours in the major with 24 credit hours of Free Electives of which a maximum of 10-11 credit hours may be in theatre. For the B.F.A., the completion of a minimum of 75 credit hours in the major with 29-30 credit hours of Free Electives of which a maximum of 10-11 credit hours may be in theatre.

10. Residency Requirements: 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, etc.). Also, a student must 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 by faculty committee. Specific questions concerning program requirements for the B.A., B.M. and B.F.A. degrees in the College or other related problems, should be directed to the Coordinator of Advising, College of Fine Arts, University of South Florida, Tampa, Florida 33620.

The responsibility for seeing that all graduation requirements are met rests with the student.

Courses for General Distribution Requirements:

Courses in the College of Fine Arts in the departments of Art, Dance, Theatre, and School of Music fall within Area II of the University's General Distribution Requirements. (See General Distribution Requirements and special policies for AA degree holders and other transfer students with "General Education Requirements" met.) However, a major in any one of the four departments/school in the College of Fine Arts may utilize only those courses in the other three departments of the College for Area II General Distribution Requirements.

College Policy for Academic Progress

The following criteria will serve as the basis 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, or art education coordinator.
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 clearly 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. With the exception of such courses as may be specifically required under the College's "Special Requirements" regulation, 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. Please refer to Academic Policies section for more information concerning the University's S/U Grading policy.

Dean's List Honors

See Academic Policies and Procedures, Programs and Services.

Interdisciplinary Study

In spite of the fact that an undergraduate interdisciplinary degree program is not formally offered in the College of Fine Arts, 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 adviser in the programs of particular interest.

Minors Program

The College of Fine Arts offers minor programs in Art, Dance, Music, 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 departmental/school academic program descriptions. For University Minor Policy, consult that section in 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, Computer Images, Graphics (Lithography and/or Intaglio), Photography, Cinematography (Film), 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.

For additional requirements see Graduation Requirements, College of Fine Arts.

The requirements for the bachelor's degree in Art Education are listed under the College of Education.

Art Studio Concentration (46 semester hours minimum)

1. Visual Concepts I, II and Introduction to Art, 12 credit hours.
2. Minimum of 12 credit hours of 3000 level studio courses (exclusive of Technique Seminars.)
3. Minimum of 8 credit hours of 4000 and/or 5000 level studio courses exclusive of Technique Seminars with an emphasis in one area.
4. Minimum of 12 credit hours in art history courses from the following: Twentieth Century art is required of all majors.

ARH 4100	ARH 4350	ARH 4530
ARH 4170	ARH 4430	ARH 4796
ARH 4200	ARH 4450	ARH 4937
ARH 4301		
5. Art Senior Seminar, 2 credit hours.
6. Maximum of 16 semester hours of art electives.

Art History Concentration (46 semester hours minimum)

1. Visual Concepts I, II and Introduction to Art, 12 credit hours.
2. Minimum of 16 credit hours of 4000 level art history courses including Twentieth Century art history.
3. Seminar in the History of Art History, 4 credit hours.
4. A minimum of 12 credit hours in Directed Readings (1 to 4 semester hours each) and/or Critical Studies in Art History (4 semester hours each).
5. Art Senior Seminar, 2 credit hours.
6. Must demonstrate competency in French or German as described under Foreign Language Competency Policy of this catalog.

7. A maximum of 16 semester hours of art electives.

For more specific information concerning this requirement, the student should consult with the art adviser or the faculty of the art history area of the art department.

Requirements for a Minor in Art (20 semester hours minimum)

1. Studio Concentration:

ART 2201C (4)	ART 2203C (4)	ARH 3001 (4)
Plus: Two 4 semester hour classes from 3000 studio level (8)		
2. Art History Concentration:

ART 2202C (4)	ART 2203C (4)	ART 3001 (4)
Plus: Two 4 semester hour classes from any of the following:		
ARH 4100 (4)	ARH 4301 (4)	ARH 4450
ARH 4170 (4)	ARH 4350 (4)	(Required) (4)
ARH 4200 (4)	ARH 4430 (4)	ARH 4530 (4)

Visiting Artists and Artist-In-Residence

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 learning opportunities available to students, the art department has brought to the campus internationally known artists and lecturers such as Alice Aycock, Linda Benglis, Jack Burnham, James Casebere, Robert Colescott, Michael Dvorak, Edward Fry, Adam Gopnik, The Gorilla Girls, Nancy Holt, Barbara Kuger, Donald Kuspit, Alfred Leslie, Komart Melamid, Maslon Riggs, Miriam Shapiro, Patterson Sims, Robert Stackhouse, Sidney Tillum, Martha Wilson, Robert Zakanowich, and Ellen Zimmerman.

ART MUSEUM

The USF Contemporary Art Museum presents a schedule of changing contemporary exhibitions in the Museum (FAM), in the Teaching Gallery in the Fine Arts building (FAH), and in the lobbies of Theatres I and II. The Art Museum has two triangular exhibition galleries and an open access collection storage area.

The art collection of the University of South Florida is composed of original graphics, drawings, photographs, and African and Pre-Columbian artifacts. Many of the prints and sculpture multiples in the collection were produced at USF's internationally recognized Graphicstudio established in 1968. Selections from this collection are loaned through the Art Bank program to museums and institutions throughout the United States.

The exhibition program focuses on contemporary American and European art and also showcases the work of faculty, students and alumni. The exhibitions and art collection serve as an integral part of the studio and art history curriculum of the Art Department and serve the students, staff and faculty of the university and Tampa Bay communities. Brochures and catalogues of major exhibitions are published by the Art Museum and includes scholarly critical essays by leading curators and scholars. Lectures, seminars, workshops and symposia on contemporary issues are presented regularly.

DANCE (DAN)

The dance curriculum is designed for students interested in dance as an art form. Their objectives may be to pursue a career as a performer and/or choreographer, continue their education in graduate school, or to teach in a college, public or a private school.

Concerts are presented each semester as well as workshop performances. Noted professional dancers and companies perform on campus and in the community providing students with the opportunity to study with visiting artists.

Requirements for the B.A. Degree Performance Concentration

MODERN CONCENTRATION (44 semester hours minimum)		
DAA 2204	Ballet II	3
DAA 3700	Choreography I	2
DAA 3105	Modern Dance III	3
(Repeat for 6 cr. hrs.)		

DAA 3205	Ballet III	3
DAA 3701	Choreography II	2
DAA 3480	Performance	1
	(Repeat for 2 cr. hrs.)	
DAA 4106	Modern Dance IV	4
	(Repeat for 8 cr. hrs.)	
DAA 4702	Choreography III	2
DAA 4703	Choreography IV	2
DAA 4790	Senior Project	1
DAN 2611	Music for Dance II	2
DAN 3590	Practicum in Dance Prod. I	1
	(Repeat for 2 cr. hrs.)	
DAN 4111	Survey History of Dance	3
DAN 4112	19 & 20th Century Dance History	3
DAN 4170	Dance Senior Seminar	2
DAN 4906	Directed Study	1

BALLET CONCENTRATION

(44 semester hours minimum)

DAA 2104	Modern Dance II	3
DAA 3700	Choreography I	2
DAA 3105	Modern Dance III	3
DAA 3205	Ballet III	3
	(Repeat for 6 cr. hrs.)	
DAA 3220	Ballet Variations	1
	(Repeat 2 times)	
DAA 3480	Performance	1
	(Repeat for 2 cr. hrs.)	
DAA 3701	Choreography II	2
DAA 4702	Choreography III	2
DAA 4206	Ballet IV	4
	(Repeat for 8 cr. hrs.)	
DAA 4790	Senior Project	1
DAN 2611	Music for Dance II	2
DAN 3590	Practicum in Dance Prod. I	1
	(Repeat for 2 cr. hrs.)	
DAN 4111	Survey of History of Dance	3
DAN 4112	19 & 20th Century Dance History	3
DAN 4170	Dance Senior Seminar	2
DAN 4906	Directed Study	1

Dance Minor Program

A minimum of 20 hours is required for a dance minor. Five hours must be in DAN courses. Ten of the 20 hours must be upper level (3000 and 4000) courses. Studio Dance courses can be repeated only once toward minor degree.

Courses for lower level

Select from:

Theatre Dance Styles	DAA 2000 (2)
Introduction to Dance - 6A	DAN 2100 (3)
Fundamentals of Modern Dance I	DAA 2100 (2)
Modern Dance II	DAA 2104 (3)
Fundamentals of Ballet I	DAA 2200 (2)
Ballet II	DAA 2204 (3)
Fundamentals of Jazz Dance	DAA 2500 (2)
Music for Dance I	DAN 2610 (2)
Music for Dance II	DAN 2611 (2)
Dance Improvisation	DAA 2704 (2)

Courses for Upper Level (minimum of 10 hours required)

Select from:

Movement Theory & Body Alignment	DAA 3800 (2)
Modern Dance III	DAA 3105 (3)
Ballet III	DAA 3205 (3)
Ballet Variations	DAA 3220 (1)
1. Pointe Class	
2. Men's Class	
3. Character Dance	
Performance	DAA 3480 (1)
Jazz Dance	DAA 3502 (2)
Jazz Theatre Dance	DAA 3503 (3)
Practicum in Dance Production	DAN 3590 (1)
Choreography I	DAA 3700 (2)
Choreography II	DAA 3701 (2)

Survey History of Dance - 6A	DAN 4111 (3)
19th & 20th Century Dance	DAN 4112 (3)
Modern Dance IV	DAA 4106 (4)
Ballet IV	DAA 4206 (4)
The Teaching of Dance: Theory & Practice	DAE 4300 (1)
Choreography III	DAA 4702 (2)
Choreography IV	DAA 4703 (2)
Selected Topics in Dance	DAN 4930 (1)
1. Massage for Dance	
2. Movement Lab	

Department Policy For Academic Progress

A maximum of 17 credit hours of Dance electives may apply toward the dance degree. TPA 2200 or 2223 Theatre Crafts: Lighting, or Costume (3) is required of all dance majors and may apply toward Area II of the General Distribution Requirements, or non-major electives, or the 6 hour Special College Requirement.

Dance majors must enroll for a minimum of 2 credit hours (1 per semester) in DAN 3590 Practicum in Dance Production. By doing technical preparation and working backstage in a minimum of two major concerts, the student will have a better grasp of production problems and their solutions. The major student is expected to earn 2 credits in DAA 3480 Performance performing in at least two faculty directed concerts in their junior or senior year.

Junior dance majors are required to complete a junior research project through Directed Studies (DAN 4906) and perform in a work created by one of the seniors. Senior dance majors are required to choreograph a group work and perform a solo as a senior project. Senior Project (DAA 4790) is designed to occur over two semesters.

Entrance to all major technique courses is by faculty audition. Until the student is accepted into Modern Dance III or Ballet III he/she will be considered as a probationary dance major. DAA 2104 or DAA 2204 may be repeated only once for credit toward degree requirements.

Prospective majors are urged to contact the dance department to arrange for an audition prior to registration.

Critiques

1. All students will be evaluated periodically at faculty sessions as well as critiqued each semester, majors will be advised accordingly.
2. If the faculty feels that a student is deficient in some area which necessitates a probationary action, the student in question will be advised and asked to sign a probation form. This form is kept on file with the student's advisor.
3. Failure to make satisfactory progress after being placed on probation the following semester 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 major courses. Should a student fail to do so, the course(s) in which the student received a "D" or "F" must be repeated and a "C" grade or better earned.

Additional Standards

In addition to meeting the specific requirements and standards discussed above, the student and adviser will periodically evaluate the student's general progress. A less-than-satisfactory 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 are:

1. Adequate technical skill and adaptability.
 2. Evidence of creative potential.
 3. "B" average in major studio classes.
 4. Good health which includes adequate control of body weight.
- Class probation and department probation require review and final determination at the end of the subsequent semester. Students will be notified of the results of final faculty review, i.e., reinstatement in good standing or recommendation to drop major.

A dance major is expected to keep his/her weight at a level that

is aesthetically acceptable to the dance faculty for classroom training and all performances.

For other non-major requirements see both Fine Arts College requirements and the University's General Distribution and graduation requirements.

Visiting Artists and Artists-in-Residence

By supplementing its excellent ongoing regular staff-instructed dance curriculum with other professional resources made available through the Visiting Artist and Artist-in-Residence programs, the Dance department provides for dance students an overall dynamic program for practice, study and learning.

MUSIC (MUS)

The B.M. Degree (Performance, Piano Pedagogy Composition and Jazz Studies):

The music curriculum is designed for students gifted 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 take a music theory diagnostic examination prior to scheduling music theory classes. Freshmen must pass this examination or enroll in a music fundamentals course which does not fulfill a requirement in the music major curriculum. Transfer students are required to take a similar placement test and enter at the appropriate level. Students may obtain dates and times for these examinations from the School of Music.

Academic programs offered include: Bachelor of Music degree with concentration in Performance (voice, jazz, piano, harp, guitar and orchestral instruments), Composition, Piano Pedagogy, and Jazz Composition.

General Requirements:

All students seeking a Bachelor of Music degree are required to (1) complete successfully the piano proficiency 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 specific requirements for MUS 2010 as set by the music faculty). Students must be enrolled in applied music studio during the semester of the recital. 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 conducted by that concentration's faculty. Where appropriate for the degree, the student is required to complete a minimum of two semesters, but no more than three semesters at the 2000 or 3000 level of applied music. Failure to complete these levels within the three semester maximum brings automatic dismissal from the program. Students may repeat the 4000 level as necessary to fulfill the total credit hour requirement (3000 level for composition or music education). Credit for only 2 semesters of applied music at the 1000, 2000, or 3000, levels will be applied toward the degree.

Core Requirements for all Performance, Pedagogy, and Composition Concentrations (48-52 semester hours minimum):

Music Theory (22)

MUT 1111 (3)	MUT 2116 (3)	MUT 4571 (3)
MUT 1112 (3)	MUT 2117 (3)	MUT 4411 (3)
MUT 1241 (1)	MUT 2246 (1)	or
MUT 1242 (1)	MUT 2247 (1)	MUT 4421 (3)

Music Literature (3)

MUL 2111 (3)

Music History (8)

MUH 3300 (2)	MUH 3301 (3)	MUH 3302 (3)
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Senior Seminar (1)

MUS 4935 (1)

Major Ensemble Performance and Pedagogy Majors (8), Composition (4)

All undergraduate students enrolled in applied music for 4 or 2 credit hours are required to be enrolled concurrently in a major ensemble appropriate to their performing medium.

Music Electives

Performance Concentration	10 hours
Piano Pedagogy Concentration	4 hours
Composition Concentration	10 hours

Core Requirements for Jazz Studies Performance and Jazz Studies Composition Concentrations (54-58 semester hours minimum):

Music Theory (26)

MUT 1111 (3)	MUT 2116 (3)	MUT 3641 (2)
MUT 1112 (3)	MUT 2117 (3)	MUT 3642 (2)
MUT 1241 (1)	MUT 2246 (1)	MUT 3353 (3)
MUT 1242 (1)	MUT 2247 (1)	MUT 3354 (3)

Music Literature (3)

MUL 2111 (3)

Music History (11)

MUH 3300 (2)	MUH 3301 (3)	MUH 3302 (3)
MUH 4801 (3)		

Senior Seminar (1)

MUS 4935 (1)

Elective Hours in Music (9)

Major Ensemble: Performance (8), Composition (4)

All students enrolled in applied music for 4 or 2 hours are required to enroll concurrently in a major ensemble appropriate to their performing medium.

Additional Requirements for Specific Concentrations:

Performance Concentration

A total of 32 credit hours of applied music major is required with a minimum of 8 hours to be completed at the 4000 level and concurrent registration in MUS 2010 (Recital Attendance).

Performance majors in voice must enroll for MUS 3201 for a total of 3 credits and MUO 3501 for 2 credits. 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 enroll in MVK 4640 for 4 credits.

Piano Pedagogy Concentration (86 semester hours minimum):

The following requirements for the piano pedagogy concentration are in addition to the above performance concentration requirements:

Piano Pedagogy (8)

MVK 4640 (4)	MVK 4641 (4)
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Junior and senior recital requirements may be fulfilled in one of the following ways; (1) lecture/recital, (2) ensemble performance, (3) recitals.

Jazz Studies-Performance Concentration

The following courses are required in addition to the core requirements:

MUT 3663 (2)	MUT 3664 (2)
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Applied music (major) through the 3000 level (min. of 24 hours). In addition to the major instrument, Jazz Bass and Jazz Guitar majors are required to enroll for 4 credits in the corresponding double bass or classical guitar applied music lessons in addition to the major applied studies.

Jazz piano proficiency

Jazz Studies-Composition Concentration

The following courses are required in addition to the core requirements:

MUC 4241 (6)	MUC 3231 (6)	MUC 2221 (6)
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Applied music (principal) with a minimum of 4 hours at the 2000 level (min. of 8 hrs.)

In addition to the principal applied music study, Jazz Bass and Jazz Guitar majors are required to enroll for 2 credits in the corresponding double bass or classical guitar applied music lessons in addition to the principal applied studies.

Jazz piano proficiency
Elective composition (6)

Composition Concentration (72 semester hours minimum)

All students seeking a degree in music with a composition concentration are required to fulfill the senior 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.

Major Ensemble (4)

All undergraduate students enrolled in applied music for 2 credit hours are required to be enrolled concurrently in a major ensemble appropriate to their performing medium.

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 (30)

Undergraduates concentrating in composition must complete a minimum of 24 credit hours from the following sequence of courses including MUC 3402, and at least one semester of MUC 4204, satisfying all necessary prerequisites for all courses:

MUC 2221 (3,3)	MUC 3401 (3)	MUT 4311 (2)
MUC 3231 (3,3)	MUC 3402 (3)	MUT 4312 (2)
MUC 4241 (3)		

and a minimum of 5 hours selected from:

MUC 2301 (2)	MUC 3601 (3)	MUC 4404 (3)
MUC 3441 (3)	MUC 3602 (3)	MUC 4501 (2)
MUC 3442 (3)	MUC 4403 (3)	MUT 3353 (3)

For other degree requirements for all the above concentrations, see Fine Arts College requirements and the University's General Distribution and graduation requirements.

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 similar musical potential 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 who do not pass the diagnostic test will be placed in a music fundamentals course which does not fulfill a requirement in the music major curriculum. All transfer students are required to take a theory placement test and enter at the appropriate level of study. Students may obtain the dates for these examinations from the music office.

Special requirements for all music education majors; successful completion of the piano proficiency requirements as defined by the music and music education faculties; participation in a major performing ensemble each semester the student is enrolled in applied music; and the presentation of a one-half hour recital in the major performing medium during the last semester of enrollment in applied music.

Students are to present a record of satisfactory recital attendance through registration in MUS 2010 (see the specific requirements for MUS 2010 as set by the music faculty).

For other degree requirements see College of Education requirements and the University's General Distribution and graduation requirements.

Note exceptions applicable to this program.

1. Instrumental Specialization (72 cr. hrs.)

Music Education courses (20 cr. hrs.)

MUE 2090 (2)	MUE 3450 (1)*	MUE 4311 (3)
MUE 3421 (1)	MUE 3451 (1)	MUE 4321 (2)
MUE 3422 (1,1)	MUE 3460 (1)**	MUE 4332 (3)
MUE 3423 (1,1)	MUE 3461 (1)	MUE 4480 (2)

* Not required of woodwind majors

** Not required of brass majors

Music courses (min. 52 cr. hrs.)

MUT 1111 (3)	MUT 2117 (3)	MUH 3300 (2)
MUT 1112 (3)	MUT 2246 (1)	MUH 3301 (3)
MUT 1241 (1)	MUT 2247 (1)	MUH 3302 (3)
MUT 1242 (1)	MUL 2111 (3)	MUG 3101 (2)
MUT 2116 (3)		

Applied Music (Principal) 12 cr. hrs. with a minimum of 4 hours at the 3000 level and concurrent registration in MUS 2010.

Music electives (2)

Applied Music Secondary (Techniques - 3 cr. hrs.)

(One each: string, percussion, voice)

Major performing ensembles

(Minimum of one per semester of applied music - 6 cr. hrs.)

Graduating recital

Piano proficiency requirement

Other Fine Arts Requirement

Art, Dance, Theatre (min. 3 cr. hrs. to be selected from one or more of the other departments of the College of Fine Arts)

2. Vocal Specialization (72 cr. hrs.)

Music Education courses (16 cr. hrs.)

MUE 2090 (2)	MUE 3423 (1)	MUE 4352 (2)
MUE 3421 (1,1)	MUE 3450 (1) or 3451 (1)*	
MUE 3422 (1)	MUE 3460 (1) or 3461 (1)*	
MUE 4331 (3)	MUE 4311 (3)	

One hour courses must be repeated to achieve 16 cr. hrs.

*As determined by audition.

Music courses (min. 56 cr. hrs.)

MUT 1111 (3)	MUT 2116 (3)	MUL 2111 (3)
MUT 1112 (3)	MUT 2117 (3)	MUH 3300 (2)
MUT 1241 (1)	MUT 2246 (1)	MUH 3301 (3)
MUT 1242 (1)	MUT 2247 (1)	MUH 3302 (3)
MUG 3101 (2)		

Applied Music (Principal) 12 cr. hrs. through with a minimum of 4 hours at the 3000 level and concurrent registration in MUS 2010.

Applied Music Secondary (Techniques 2 cr. hrs.)

(one each: string, percussion)

Major Ensembles

(Minimum of one per semester of applied music - 6 cr. hrs.)

Music Electives (7)

Piano proficiency requirement

Graduating recital

Other Fine Arts Requirement

Art, Dance, Theatre (min. 3 cr. hrs. to be selected from one or more of the other departments of the College of Fine Arts)

3. General Music Specialization (72 cr. hrs.)

Music Education courses (15 cr. hrs.)

MUE 3460 (1) or MUE 3461 (1)*	
MUE 3450 (1) or MUE 3451 (1)*	
MUE 2090 (2)	
MUE 3421 (1)	MUE 4311 (3)
MUE 3422 (1)	MUE 4330 (3)
MUE 3423 (1)	MUE 4352 (2)

One hour courses must be repeated to achieve 16 cr. hrs.

*As determined by audition.

Music Courses (min. 56 cr. hrs.)

MUT 1111 (3)	MUT 2116 (3)	MUL 2111 (3)
MUT 1112 (3)	MUT 2117 (3)	MUH 3300 (2)
MUT 1241 (1)	MUT 2246 (1)	MUH 3301 (3)
MUT 1242 (1)	MUT 2247 (1)	MUH 3302 (3)
MUG 3101 (2)		

Applied Music Principal 12 cr. hrs. with a minimum of 4 hours at the 3000 level and concurrent registration in MUS 2010.

Applied Music Secondary Techniques (3 cr. hrs.)

(one each: string, percussion, voice)

Major Ensembles

(minimum of one per semester of applied music - 6 cr. hrs.)

Major electives (7)

Piano proficiency requirement

Graduating recital

Other Fine Arts requirement

Art, Dance, Theatre (min. 3 cr. hrs. to be selected from one or more of the other departments of the College of Fine Arts)

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.

1. **Core Curriculum:** 11 hours
 - Music Theory (8)
 - Introduction to Music Literature (3)
 - or
 - Music History (3)
2. **Optional Concentrations:**
 - a. History-Theory-Literature 9-10 hours
 - Music History and/or Theory and/or Literature (7-8)
 - Music Ensemble (2)
 - b. Applied Music (Principal) 8-12 hours
 - 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 9 hours
 - Introduction to Electronic Music (2)
 - Composition Studio courses which may include one course of orchestration (6)
 - Music Ensemble (1)
3. **Admission** to all 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.

The Faculty:

The music faculty is made up of a collection of outstanding musicians and scholars whose talents and achievements provide a unique educational resource for all music students. Faculty ensembles such as the Arts Nova Quintet, the Faculty Jazz Quartet, and the Metropolitan Arts Trio provide an important musical contribution to campus and Tampa area cultural life, and many music faculty perform in professional music ensembles in 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 chairperson of the Scholarship Committee. Financial aid decisions are made after completion of a performance held in January, February, and March. 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 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 who have appeared in the past are: Norman Dello Joio, Olly Wilson, Randall Thompson, Guarneri 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

■ THEATRE (TAR)

The Department Major:

Through its curriculum and production program, the Department of Theatre offers seriously interested students the opportunity to prepare themselves for a professional career in the Theatre or to continue their studies at the graduate level. In addition, students from other departments and colleges have the opportunity to study and participate in the work of the department, thereby allowing them to gain insight into the creative experience of theatre.

After a thorough orientation to all facets of the art gained in the basic courses, the theatre major pursuing the Bachelor of Arts degree selects one of the following areas of study: Performance, Design, Theatre Arts, or Theatre Education. To allow for greater preparation in design, a Bachelors of Fine Arts degree in Design is offered. The department also offers a minor in Theatre. For advanced upper level students a Theatre Honors Program of specialized courses is offered, often involving guest artist residencies.

Through the production program, which includes a variety of performances for the university community and the general public, the student is encouraged to participate in all aspects of theatre practice. The Department also offers opportunities to the advanced student to work with visiting professional companies.

Visiting Artists and Artists-in-Residence:

TheatreUSF actively promotes guest artists on campus. A partial list of the internationally known artists and the theatres with which they are affiliated includes: Edward Albee, Marge Barstow, Joseph Chaikin, Daniel Chumley, Martin Esslin, H. D. Flowers, Christopher Fry, John and Lisel Gale, Patrick Garland, Miriam Goldina, Boris Goldovsky, Henry Hewes, Jeff Jones, Bob Kelly, Mesrop Kesdekian, Michael Kirby, Arthur Lithgow, Marcel Marceau, Siobhan McKenna, Sam Mendes, Bob Moody, Eric Overmyer, Estelle Parsons, Olga Petrovna, Ben Piazza, Sergei Ponomarev, Alan Schneider, Doug Watson, and Able and Gordon. These and others have helped the department develop relationships with: London's West End, The Actors' Studio, Dublin's Abbey Theatre, Broadway, Washington's Arena Stage, San Francisco Mime Troupe, The Stratford Ontario Shakespeare Festival, The Welsh National Theatre, the BBC, the London Academy of Music and Dramatic Art, the Working Theatre, Coventry's Belgrade Theatre, The Deutsches Theatre, Free Theatre of Munich, The Polish Theatre, The Chichester Festival, The Edinburgh Festival and The Spoleto Festival.

Requirements for the B.A. Degree with a major in Theatre

Of the total 124 credit hours needed for graduation in the Performance, Design, or Theatre Arts areas, the student following a Performance area must take a minimum of 54 credit hours, and the student following the Design area or Theatre Arts area must take

a minimum of 55 credit hours within the Department of Theatre. In addition, a maximum of 11 credit hours (Performance) and a maximum of 10 credit hours (Design or Theatre Arts) may apply to the theatre electives area. Of the 137-140 total credit hours needed for graduation in the Theatre Education area, the student must take a minimum of 54 credit hours within the Department of Theatre and a minimum of 37-40 credit hours within the College of Education.

The student 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 (35 hours)

First Year (11 credit hours)

THE 2020 Theatre Fundamentals
TPA 2200 Theatre Crafts: Stagecraft
TPP 2110 Voice-Body-Improvisation
Choice of one:
TPA 2223 Theatre Crafts: Lighting
TPA 2232 Theatre Crafts: Costume

Second Year (10 credit hours)

THE 3100 Theatre History
TPA 3004 Means of Visual Expression
TPP 3111 Workshop for Text Analysis

Third Year (8 credit hours)

Choice of two:
THE 4320 Theatre of Myth and Ritual
THE 4330 Shakespeare for the Theatre
THE 4360 19th Century Theatre Revolution
THE 4401 O'Neill and After
THE 4442 Comedy of the Classic and Neo-Classic Stage
THE 4480 Drama - Special Topics
plus 2 credits of THE 3925 for PI*

Fourth Year (6 hours)

Choice of one:
THE 4180 Theatre Origins
THE 4562 Senior Colloquium
plus 2 credits of THE 4927 for PI*

*Theatre Crafts Lab: TPA 2200 Theatre Crafts Stagecraft, TPA 2223 Theatre Crafts Lighting, TPA 2232 Theatre Crafts Costume has a laboratory (LAB) in addition to the regularly scheduled class sessions. LAB guidelines are available in the Theatre Office.

*Production Involvements: All Theatre Majors must complete 4 PI's (Production Involvements) as part of their graduation requirements. PI's must be taken under THE 3925 Production Involvement and/or THE 4927 Advanced Production Involvement for a total of 4 PI's. Students may register for PI credit beginning in the second semester of the Sophomore year and are expected to register each consecutive semester until completion of the four involvements. PI assignments are made by faculty committee following the student's completion of a PI request form and registration in the course. PI guidelines are available in the Theatre Office.

*Audition and Portfolio Review: All students desiring admittance into the Scene Study sequence must audition and those entering the upper level design sequence must present a portfolio.

Required Courses for Areas of Study:

Performance Area

(54 hours minimum with core) - 19 hours as follows:

Third Year (10 hours)

TPP 3500 Body Disciplines
TPP 3790 Voice Preparation
TPP 4150 Scene Study I
TPP 4152 Scene Study II

Fourth Year (9 hours)

TPP 4140 Styles of Acting
TPP 4180 Advanced Scene Study
TPP 4920 Senior Workshop for Actors

Design Area

(55 hours minimum with core) - 20 hours Theatre, 4 hours Art as follows:

Second Year (3 hours)

Complete Theatre Crafts sequence with TPA 2223 Lighting or TPA 2232 Costume
ART 3301C* Drawing I

*required in the Theatre Design Area, recommended to be taken upon completion of prerequisite TPA 3004 Means of Visual Expression

Third Year (9 credit hours)

TPA 4208 Stagecraft and Drafting
Choice of two depending on design concentration:
TPA 3221 Lighting: Theory and Practice
THE 4264 History of Costume
THE 4266 Architecture and Decor

Fourth Year (8 credit hours)

Choice of 2 depending on design area:
TPA 4020 Light Design
TPA 4040 Costume Design
TPA 4060 Scene Design

Theatre Arts Area

The Theatre Arts area 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.

(55 hours minimum with core) - 20 hours as follows:

Two credit hours from any of the Performance sequence of courses (TPP) plus eighteen hours to be selected from the Theatre Department's course offerings.

Theatre Education Area

The Theatre Education area prepares students for the Florida Drama Teaching Certification exam for Grades 6-12. In addition to Department of Theatre requirements students must meet the College of Education's upper level entrance requirements and complete 37-40 credit hours in Education.

(54 hours minimum with core in Theatre Department)

Note to students: The curriculum for this program is currently being revised. Students are responsible for getting a copy of the revised program during the 1992/93 academic year. It is each student's responsibility to keep a copy of the revision to refer to for their graduation requirements under this catalog.

Freshman Lab and Production Involvement:

TPA 2200, TPA 2223 and TPA 2232 have a weekly 4 hour laboratory (LAB) in addition to weekly lectures (3 hours).

Beginning with the second semester of the sophomore year, the Theatre major is expected to enroll each succeeding semester in either THE 3925 or THE 4927 (1 credit). All theatre majors must satisfy four PI's before they are approved for graduation. The PI's are assigned by the faculty and are usually construction or running crews or performance assignments. Each assignment entails a minimum of 55 hours.

Requirement for a Minor in Theatre (23 hours minimum):

THE 2020 Theatre Fundamentals
TPA 2200 Theatre Crafts: Stagecraft
TPP 2110 Voice-Body-Improvisation
THE 3925 Production Involvement
THE 4927 Advanced Production Involvement
Choice of one:
TPA 2223 Theatre Crafts: Lighting
TPA 2232 Theatre Crafts: Costume

The remaining 10 hours are to be selected by the student with the advice of the theatre advisor. At least 9 hours must be upper level courses. The Theatre Advisor will be available to assist the student in developing a course of study that will meet the needs of the individual student.

Students desiring admittance into the Scene Study sequence must audition and those entering the upper level Design sequence must have a portfolio review.

All Theatre Minors must complete 2 PI's (Production Involvement) as part of their graduation requirements. PI's must be taken under: THE 3925 - Performance 1 credit and/or THE 4927-Advanced Performance 1 credit hour for a total of two (2) hours. Students may register for PI credit in the second semester of the Sophomore year and are expected to register each consecutive semester until completion of two involvements.

Requirements for the B.F.A. Degree in Design:

The student should submit a letter of application as early as the second semester of the Junior year. This should be accompanied by a transcript and a detailed description of production involvement.

Admission to the B.F.A. program is by portfolio presentation and acceptance by the Design faculty committee.

As soon as the B.F.A. candidate has been accepted into the program, the Chairman of the Theatre Curriculum Committee in conference with the student and with the approval of the department chairman will select the student's Advisory Committee. The Advisory Committee will be composed of three members of the Theatre faculty.

This committee has the responsibility to develop a curriculum designed to meet the specific needs of the student and will decide if the following requirements have been met and appropriate standards maintained:

Completion of the appropriate Department of Theatre B.A. requirements.

Development and execution of a creative project.

Participation in one summer session.

A minimum of 30 credit hours above the B.A. including 6 credits of non-theatre electives. (Theatre courses taken prior to the appointment of the B.F.A. Advisory Committee and without the advice of the Committee cannot be considered part of the B.F.A. program.)

Design Concentration

7 hours in Creative Project and Execution:

THE 4905 or THE 5909 Directed Studies (Research & Design Creative Project)

7 hours in completion of third area of design and its prerequisite99 hours in the 9 hours in the following:

TPP 4310 Directing I

THE 4900 Directed Reading

Choice of one of the following:

TPP 4150 Scene Study I

TPP 4230 Lab Workshop in Performance

7 hours of additional electives of which 6 must be outside the Department of Theatre.

Honors Program

The Honors Program is available to upper level majors who have a 3.0 overall GPA in the major, and who have achieved a comparably high level of artistic and/or scholarly achievement. A 6-8 credit one-year sequence of courses is offered to students accepted into the Honors Program.

THE 4593 2 credit hours

THE 4594 3 credit hours

THE 4595 1-3 credit hours

NEW COLLEGE OF USF

UNIVERSITY OF SOUTH FLORIDA - 1992/93 UNDERGRADUATE CATALOG

New College of the University of South Florida, located on USF's Sarasota 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 criteria are highly selective. New College looks for students who have demonstrated above average ability, academic motivation and self-discipline. About 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 1986, housing a collection presently numbered at over 200,000 volumes. The library is linked through inter-library loan to the USF system of over one 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. The college has special access to significant biological field research sites in the Sarasota area. Computer facilities available to students range from "user friendly" Macintoshes to an IBM main frame.

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, and has an exchange program with the University of Glasgow.

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, Child Development, Classics, Computer Science, Economics, Environmental Studies, Fine Arts, History, International Relations, 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, finances, 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.

The 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. By special petition and with summer study, exceptionally qualified students may complete the degree requirements in three years. All students must complete a senior thesis and pass a baccalaureate examination based 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. An interview is required for all applicants within a 100-mile radius of Sarasota and encouraged for all candidates. 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 tuition is the same as for other institutions within the State University System.

Both need-based financial aid and achievement-based scholarships are available to New College students, and about 67% of the students receive some type of direct financial assistance. Students must apply for need-based aid and for USF scholarships. Achievement scholarships from the New College Foundation are awarded by the New College Admissions Office to those students the college believes will make an outstanding contribution to the New College community.

The New College Admissions Office processes applications on a rolling basis, with decisions beginning about January 15. Students applying for need-based financial aid and USF scholarships must apply by February for the fall semester. Application forms and literature can be obtained from the New College Office of Admissions, 5700 N. Tamiami Trail, Sarasota, Florida 34243. Phone (813) 359-4269.

Student Life

New College is a residential college, with the majority of its students living on campus or in adjacent neighborhoods. All students attend full-time. Students are challenged to accept major responsibilities for the direction of their own affairs, including their social and extra-curricular activities. The Student Affairs Office, through its professional staff, is responsible for personal counseling, housing, health services, and other support services.

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.

COLLEGE OF NURSING

UNIVERSITY OF SOUTH FLORIDA - 1993/94 UNDERGRADUATE CATALOG

The College of Nursing is committed to the improvement of nursing and health care services through its educational programs, community service, and research activities. In order to carry out its commitment in 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 basis on the Tampa campus, or 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 five to six semesters.

The program is accredited by the National League for Nursing 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 by the State of Florida Board of Nursing. Graduates also may apply for licensure in 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. Florida residents are given priority.

Professional Nursing Philosophy

Nursing is a profession and a discipline sanctioned by society. Its essential goal is health which is expressed within the context of personal, interpersonal and social systems. The focus for professional nursing is human beings interacting in a variety of environments for the purpose of pursuing health or a dignified death. Nursing is a transactional process which establishes mutually set goals with individuals, groups, families and communities for the purpose of providing health activities and care of the sick, injured, and dying. The complex intellectual processes used by nursing are perceiving, thinking, relating, judging, acting and interacting. These processes require the use of a scientific body of knowledge to assess, plan, implement, and evaluate nursing care.

Concepts which are the central focus for the practice of professional nursing are human beings, society, environment and health.

Human beings are unique and holistic, and are characterized by open systems of transaction with their environment. They are perceptual; purposeful; action, time and goal oriented. Human beings communicate through their use of language and other symbols that reflect individual, group, and societal differences.

Society encompasses individual, group, family and community values, norms and expectations. The United States is a pluralistic, democratic, dynamic society in continuous change as exemplified by increased technological advances. However, the freedom of individuals and groups is protected by the laws and the behavioral norms of this social system.

Environment is comprised of ecosystems which support the interactive process of the personal, interpersonal, and social systems. Nursing systems strive to promote, provide, and support healthy environments as an integral aspect of professional nursing practice.

Health is viewed within the context of dynamic life experiences of individuals, groups, families, and communities. Health implies continuous adjustment to stressors and challenges in the internal and external environment through use of resources in order to achieve maximum potential for optimum functioning. Health is

influenced by cultural, social, economic, genetic, political factors as well as value systems and religious beliefs. Human beings have the right to quality health care, the obligation to engage in health practices and the freedom to make informed decisions about their health, health practices, and health care.

Nursing care is an integral component of health care delivery. Professional nurses assume various roles which involve independent, collaborative, interdependent, and dependent functions. Professional nurses provide health services in a variety of complex systems and are accountable for these professional services based on (1) a body of knowledge which is continuously being refined and expanded through nursing research; (2) a Code of Ethics; (3) standards of practice as determined by the profession; and (4) the Nurse Practice Act. Professional nurses provide leadership through participation in professional and community organizations. As responsible citizens, nurses contribute to the promotion of quality health care by participation as knowledgeable members of society in activities that influence the health of individuals, families, groups and communities.

The discipline of nursing is an integral part of the system of higher education and is responsible for the development and dissemination of knowledge. The discipline is also responsible for promoting and preserving the historical and philosophical foundation of the profession. Knowledge is developed through identification of models for systematic thought; constructing and testing theories for nursing; and conducting research. The discipline disseminates knowledge for nursing through scholarly publications and presentations; and through curriculums that prepare for entry into professional practice and for entry into areas of specialized practice and research. In these curriculums the teaching-learning process is a cooperative enterprise in which learners have the freedom to learn and teachers have the freedom to teach. Learning is viewed as a lifelong process of social, psychological, and intellectual growth essential for performing the functions of professional nursing.

UNDERGRADUATE PROGRAM TERMINAL OBJECTIVES

UPON GRADUATION, GRADUATES WILL:

1. Use the nursing process as the basis for nursing practice in primary, secondary and tertiary care settings to assist individual clients, families or groups of clients of all cultures and ages in the promotion and maintenance of health, prevention of illness, coping with actual and perceived threats to health, restoration of health, habilitation and rehabilitation.
2. Participate cooperatively with other health care professionals and community leaders in assessing community health needs and planning and providing essential services.
3. Practice within the legal/ethical parameters of professional nursing.
4. Utilize knowledge of concepts, principles, theories, and models underlying nursing practice to guide clinical decision making.
5. Utilize appropriate principles of leadership in providing leadership within the health care system of the profession.
6. Exercise clinical judgment needed to apply clinical data and research findings from nursing and related fields in nursing practice.

Undergraduate Education In Nursing

Qualified students with no previous preparation in nursing, and registered nurses who are graduates of associate degree or hospital programs are eligible for admission. The undergraduate program in nursing is an upper division major at the University of South Florida. The University's general education distribution requirements and College of Nursing prerequisite/support courses can be completed on the Tampa campus or at any local community college, university or college that offers the general education distribution. These can be completed prior to transfer to USF for the nursing major.

Students who enroll at USF in the lower division are admitted to Undergraduate Studies. They must meet the requirements for admission to the University, and should follow the procedures for admission to the University in this Catalog.

Applications for admission to the University may be obtained by contacting the Office of Admissions, University of South Florida, Tampa, Florida 33620. College graduates and transfer students from other undergraduate nursing programs are also eligible for admission to the major on a space available basis. Transfer students may not be admitted to the College of Nursing unless they are eligible for admission to the University. Official transcripts certifying completion of all requirements for admission must be available to the College of Nursing before admission is confirmed and enrollment permitted.

Basic students are admitted in the Fall semester of each year. The deadline for University application is *January 4 of the year in which the student plans to enroll*. Applications are available from: Office of Admissions, University of South Florida, Tampa, Florida 33620. *In addition, a separate application must be submitted directly to the College of Nursing by February 1, prior to the Fall semester.* College applications are available from: College of Nursing, Office of Student Affairs, University of South Florida, Tampa, Florida 33612.

Registered nurse students are admitted to the College on a more flexible basis contingent upon completion of admission requirements, and the availability of the appropriate sequence of nursing courses on the campus to which they are seeking to pursue coursework. The deadline for receipt of an application from registered nurse students is the University deadline date for the semester in which they intend to enroll. For more specific information, contact the College of Nursing Office of Student Affairs.

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 general education distribution requirements as part of the above. These requirements may be satisfied by the completion of 40 semester hours in the following areas with not less than 6 semester hours in each area:
 - a. English Composition
 - b. Humanities/Fine Arts
 - c. Mathematics/Quantitative Methods*
 - d. Natural Sciences*
 - e. Social Sciences*
3. Students with an A.A. degree (other than in nursing) will be considered to have met all of the USF General Education Distribution requirements but also must meet specific college requirements in the areas marked.*
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 transcripts, to the College of Nursing by the appropriate deadline.
3. Maintain a minimum grade point ratio of 2.5 with a grade of "C" or better in each general education support course.
4. Complete prior to enrollment in the major all those general education and specific general education support courses required for admission to the major.
5. Complete all general education support courses with not more than two (2) repeated courses and not more than one (1) repeat of any given course.

6. Complete the College Level Academic Skills Test (CLAST) and the writing and computation course requirements of 6A-10.30.
7. Complete an approved cardiopulmonary resuscitation (BCLS) course prior to enrollment.
8. Provide evidence of computer literacy.
9. Provide evidence of current licensure in Florida if enrolling in the program as a registered nurse.
10. Provide evidence of recent work in nursing if enrolling in the program as a registered nurse.

In addition to the minimum requirements listed above, applicants will be evaluated on factors which are relevant to program completion and professional nursing practice: cumulative grade point average, performance in specific courses, and ability to communicate verbally and in writing. All applicants who appear to be eligible for admission may be interviewed.

Those applicants with the highest total rankings are accepted in order until the quota is filled. As vacancies occur prior to the enrollment date, those next on the list are accepted to fill them. Enrollment of all students is contingent upon verification through official transcripts of satisfactory completion of all requirements for admissions.

Conditional Admission Policy for Registered Nurses

RN students who have not completed their general education requirements may be admitted conditionally to the College of Nursing. Students may enroll in selected nursing courses while completing these requirements. Nursing courses may be selected from the following:

- NUR 3105 Introduction to Professional Nursing
- NUR 3007 Nursing Process
- NUR 3065C Client Assessment I
- NUR 3706 Nursing Concepts in Secondary Care
- NUR 3706L Nursing Practicum I
- NUR 3826 Ethical/Legal Aspects in Nursing and Health Care
- NUR 4165 Introduction to Research
- Electives

The following courses are restricted to fully admitted students: NUR 4607, NUR 4607L, NUR 4827C, and NUR 4943L. Students who are admitted conditionally must satisfy written contract requirements.

Specific Course Requirements

The College of Nursing requires certain courses within the general education distribution 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 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 (813-974-2191).

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 must be completed with a grade of "C" or better. CLEP subject exams are acceptable.
 - b. **Statistics** - one course in statistics must be completed with a grade of "C" or better. STA 3122
2. Natural Sciences: minimum of 14 semester credits (excluding 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. *At least 6 semester credits must have been completed by the admissions application deadline.*
 - a. **Biology** - minimum of 6 semester credits. Courses should include content in 1) cell theory, 2) biological transport, 3)

genetics, (4) evolution, 5) phylogenetic survey of plant and animal kingdoms, 6) ecology, etc.

BSC 2010, and BSC 2011. CLEP is acceptable.

- b. **Chemistry** - A minimum of 6 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 2041, 2046 or *CHM 2030, 2031 can be partially met with CLEP.
*Chemistry sequence for non-science majors.
- c. **Other** - the remaining credits can be earned by completing additional courses in biology and chemistry, or in genetics, physics, physical science, etc. (A course in non-quantitative physics is recommended but not required.)
3. **Social Sciences** - completion of each of the following with a grade of "C" or better in each course.
 - a. **American Government** - one course in modern American government or state and local government. CLEP is acceptable. POS 2041, POS 2112, PAD 3003, POT 4204, POS 4424.
 - b. **Individual and Social Community Behavior: completion of at least three courses with at least one course in psychology and one course in sociology** and one additional course in psychology, sociology, anthropology, gerontology or human sexual behavior. CLEP is acceptable.
4. **Supporting Sciences**: All courses must be completed prior to full admission to the nursing major with a grade of "C" or better in each course.
 - a. **Microbiology** - one course. CLEP is not acceptable. APB 3110 or MCB 3030C. The ACT/PEP examination in microbiology is acceptable.
 - b. **Anatomy and Physiology** - one course. A combined course in anatomy and physiology which is equivalent to APB 3190 is acceptable or individual courses. The ACT/PEP examination in anatomy and physiology is acceptable.
 - c. **Nutrition** - one course. College of Nursing Challenge Examination or University of Florida correspondence course are acceptable. HUN 2201
 - d. **Human Growth and Development (Life Span)** - Must include birth through aging process to death. HUS 4020 or DEP 3103 and GEY 3000 or DEP 4005 and GEY 3000. N.B. *Each of the above courses are not offered every semester; therefore, the student should plan his or her enrollment schedule with care.* CLEP is not acceptable.

CLEP Examinations

In accordance with University policies, College Level Examination Program (CLEP) general and subject examinations may be taken in several areas. CLEP examinations must be taken 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 one or all five of the required areas. In addition, credit may be earned for a number of College of Nursing support courses, including: American Government POS 2041; English Composition ENC 1101, 1102; Biology BSC 2010, BSC 2011; General Chemistry CHM 2041, CHM 2046; and Statistics STA 3122. Additional information may be obtained from the Office of Evaluation and Testing, University of South Florida.

ACT/PEP 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 23 semester general elective lower level credits through successful completion of the ACT/PEP examinations in nursing. These 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 ACT/PEP examinations in nursing apply only to the B.S. degree with a major in nursing offered by the College of Nursing. Additional information about the ACT/PEP examinations may be obtained from the Office of Evaluation and Testing, University of South Florida.
3. Registered nurses who are graduates of associate degree programs may receive up to 23 semester general elective lower level credits for their previous nursing education.
4. Both basic and registered nurse students may earn up to 6 semester credits and fulfill the college's prerequisite requirement in anatomy and physiology through successful completion of the ACT/PEP examination in anatomy and physiology, and up to 3 credits in microbiology through successful completion of the ACT/PEP examination in microbiology.

Degree Requirements

Students will be certified for the Bachelor of Science degree with a major in nursing upon completion of a minimum of 126 semester hours composed of general education requirements, science support courses (physical, biological, social and behavioral), upper level and nursing electives, and required nursing courses.

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). *At least 60 semester hours must be earned from a baccalaureate-degree-granting institution regardless of credit hours transferred from a Community/Junior College unless prior written approval has been received from the college of the student's intended major.*

Nursing Courses - Basic Baccalaureate Sequence

Junior Year (2 semesters)

- | | |
|-----------|--|
| NUR 3105 | Introduction to Professional Nursing (3) |
| NUR 3615 | Nursing Process I (3) |
| NUR 3615L | Nursing Intervention I (2) |
| NUR 3065C | Client Assessment I (2) |
| NUR 3826 | Ethical-Legal Aspects in Nursing and Health Care (2) |
| NUR 3456 | Nursing Process II (2) |
| NUR 3456L | Nursing Intervention II (3) |
| NUR 3535 | Nursing Process III (2) |
| NUR 3535L | Nursing Intervention III (2) |
| NUR 3066C | Introduction to Community Health Nursing (2) |

Senior Year (3 semesters)

- | | |
|-----------|---|
| NUR 4165 | Introduction to Research (2) |
| NUR 4285C | Nursing Process IV (1) |
| NUR 4256 | Nursing Process V (2) |
| NUR 4256L | Nursing Intervention IV (4) |
| NUR 3827 | Leadership-Management Aspects in Community Health Nursing (2) |
| NUR 4257 | Nursing Process VI (2) |
| NUR 4257L | Nursing Intervention V (6) |
| NUR 4258 | Nursing Process VII (2) |
| NUR 4265 | Nursing Process VIII (2) |
| NUR 4837 | Leadership/Management and Role Transition (3) |
| NUR 4946L | Preceptorship (6) |

In addition to the requirements listed above, a minimum of 10 credits in upper level electives will be required for graduation: at least six (6) credits in upper level courses in general education (courses in arts, humanities, natural or behavioral sciences, economics, business or management, education, etc., are acceptable) and at least four (4) credits in nursing electives (NUR 4935, Selected Topics in Nursing, and/or NUR 4905C, Independent Study in Nursing, are currently used for this purpose).

Nursing Courses - Registered Nurse Sequence

(3 semesters)

- NUR 3007 Nursing Process (2)
 NUR 3826 Ethical-Legal Aspects of Nursing and Health Care (2)
 NUR 3105 Introduction to Professional Nursing (3)
 NUR 3065C Client Assessment I (2)
 NUR 3706 Nursing Concepts in Secondary Care (4)
 NUR 3706L Nursing Practicum I (2)
 NUR 4165 Introduction to Research (2)
 NUR 4607 Nursing Concepts in Primary Care (4)
 NUR 4607L Nursing Practicum II (3)

- NUR 4827C Leadership/Management Concepts for Nursing Practice (4)

- NUR 4943L Nursing Practicum III (4)

In addition to the requirements listed, a minimum of 10 credits in upper level electives is required for graduation: at least six (6) credits in upper level courses in general education (courses in arts, humanities, natural or behavioral sciences, economics, business or management, education, etc., are acceptable) and at least four (4) credits in nursing electives (NUR 4935, Selected Topics in Nursing and/or NUR 4905C, Independent Study in Nursing are currently used for this purpose).

PUBLIC HEALTH

UNIVERSITY OF SOUTH FLORIDA - 1993/94 UNDERGRADUATE CATALOG

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 provide trained health professionals who can meet the pressing health needs of the State and nation. The College also serves as a State center 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 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 indigent population. It serves to address environmental issues as they affect populations as well as health and safety in the workplace.

Despite this diversity, the common focus of public health education 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, etc. Full-time students are able to complete graduate 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.

The MPH is a professional, non-thesis degree. The course of study is 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, health maintenance organizations, voluntary health agencies, public and private school systems, colleges and universities, local and state health agencies, private industry and international health organizations.

Students seeking admission to the MPH degree program must have completed 90 undergraduate semester hours, achieved at least a 3.0 GPA, earned a combined verbal and quantitative score of at least 900 on the GRE, and satisfied the CLAST and Rule 6A-10.3 requirements.

Undergraduate students seeking careers in public health including Health Administration and Management, Environmental Health, Industrial Hygiene, Safety Management, Health Education, Maternal and Child Health, 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.

Students interested in these programs should contact the Office of Academics at the College of Public Health for specific information, 974-6665.

COURSE DESCRIPTIONS

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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 a colon indicate concurrent lecture and laboratory courses taught as a unit:

PHY 3040, 3041L GENERAL PHYSICS & LABORATORY (3:1)

Credits separated by commas indicate unified courses offered in different semesters:

AMH 2010, 2020 AMERICAN HISTORY I, II (4,4)

Credits separated by a hyphen indicate variable credit:

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
6A	Courses to satisfy Rule 6A-10.30 (Gordon Rule)

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	Education
Astronomy	Arts and Sciences
Basic and Interdisciplinary Engineering	Engineering
Biology	Arts and Sciences
Botany (Biology)	Arts and Sciences
Business and Office Education	Education
Chemistry	Arts and Sciences
Chemical Engineering	Engineering
Chinese	Arts and Sciences
Civil Engineering and Mechanics	Engineering
Classics	Arts and Sciences
Common Body of Knowledge	Business Administration
Communication	Arts and Sciences
Communication Science and Disorders	Arts and Sciences
Computers in Education	Education
Computer Science and Engineering	Engineering
Computer Service Courses	Engineering
Cooperative Education	University-wide Courses
Content Specializations	Education
Counselor Education	Education
Criminology	Arts and Sciences
Curriculum and Instruction	Education
Dance	Fine Arts
Distributive and Marketing Education	Education
Economics	Business Administration
Electrical Engineering	Engineering
Elementary Education	Education
Engineering Technology	Engineering
English	Arts and Sciences
English Education	Education
Finance	Business Administration
Foreign Language Education	Education
Foundations 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
Humanities Education	Education
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)	Arts and Sciences
Language	Arts and Sciences
Latin (Classics)	Arts and Sciences
Liberal Studies	Arts and Sciences
Library, Media & Information Studies	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
Measurement and Research	Education
Mechanical Engineering	Engineering
Medical Technology	Arts and Sciences
Microbiology (Biology)	Arts and Sciences
Military Science	University-wide Courses
Music	Fine Arts
Music Education	Education, Fine Arts
Nursing	Nursing
Off-Campus Term	University-wide Courses
Philosophy	Arts and Sciences
Physical Education Elective	Education
Physical Education for Teachers	Education
Physics	Arts and Sciences
Polish (Language)	Arts and Sciences
Political Science	Arts and Sciences
Portuguese (Language)	Arts and Sciences
Psychology	Arts and Sciences
Public Administration	Arts and Sciences
Public & Community Health Education	Public Health
Reading Education	Education
Rehabilitation Counseling	Arts and Sciences
Religious Studies	Arts and Sciences
Romance (Language)	Arts and Sciences
Russian (Language)	Arts and Sciences
Social Science Education	Education
Social Sciences, Interdisciplinary	Arts and Sciences
Social Work	Arts and Sciences
Sociology	Arts and Sciences
Spanish (Language)	Arts and Sciences
Special Education	Education
Theatre	Fine Arts
Women's Studies	Arts and Sciences
Yoruba (Language)	Arts and Sciences
Zoology (Biology)	Arts and Sciences

Cross-Listing of Departments and Programs Alphabetically by College, Department/Program

College/Department/Program	Common Course Prefixes
University-wide Courses	
Air Force ROTC	AFR
Architecture	
Cooperative Education	COE
Honors Program	IDH
Military Science (Army ROTC)	MIS
Off-Campus Term	OCT
Public Health	
College of Arts and Sciences	
Africana	AFA
American Studies	AMS
Anthropology	ANT
Biology	BIO, BOE
Botany	BOT

Chemistry	CHM, CHS	Higher Education	HUM
Classics	CLT	Humanities Education	HUM
Greek	GRE, GRK, GRW	Industrial/Technical Education	ETA, EVI, EVT
Latin	LAT, LNW	Measurement-Research	EDF
Clinical Chemistry	CHC	Music Education	MUE
Communication	SPE	Physical Education for Teachers	HES, LEI, PEQ, PET
Criminology	CCJ	Reading Education	RED
Economics	ECN	Science Education	SCE
English	AML, CRW, ENC, ENG, ENL, LAE, LIN, LIT, REA	Social Science Education	SSE
	BSC	Special Education	EDG, EED, EEX, EGI, ELD, EMR, EPH, EVI
General Biology	GPY		
Geography	GLY	College of Engineering	EGN
Geology	GES, GEY	Basic and Interdisciplinary Engineering	ECH, EMC
Gerontology	GIA	Chemical Engineering	CEG, CES, CGN, CWR,
Government & International Affairs	INT	Civil Engineering and Mechanics	EES, EMA, ENV, TTE
International Studies	POL		CAP, CDA, CGS, CIS, COC,
Political Science	PAD	Computer Science & Engineering	COP, COT, EEL, ESI
Public Administration	HTY		CAP, CDA, COC, COP
History	HUM	Computer Service Courses	EEL, ELR
Humanities	INS	Electrical Engineering	ETE, ETG, ETI, CGS
Interdisciplinary Natural Sciences	ISS	Engineering Technology	EIN, ESI
Interdisciplinary Social Sciences		Industrial and Management Systems	EAS, EMC, EML, ENU
Language	FOL	Mechanical Engineering	
General Foreign Languages	ARA	College of Fine Arts	ARH, ART
Arabic	CHI	Art	DAA, DAN
Chinese	FLE, FRE, FRW	Dance	MUC, MUG, MUH, MUL ,
French	GER, GEW	Music	MUN, MUO, MUS, MUT, MVB,
German	HBR		MVK, MVP, MVS, MVV, MVV,
Hebrew	ITA, ITW		MUE
Italian	JPN	Music Education	THE, TPA, TPP
Japanese	POL	Theatre	
Polish	POR, POW	College of Nursing	
Portuguese	FOW	Nursing	HUN, NUR
Romance	RUS, RUT, RUW		
Russian	SPN, SPW		
Spanish	YOR		
Yoruba	IDS		
Liberal Studies	COP, LIS		
Library, Media, & Information Studies	ESL, LIN, PHI, TSL		
Linguistics	ADV, FIL, JOU, MMC, PGY,		
Mass Communications	PUR, RTV, VIC		
	MAE, MTH		
Mathematics	MET		
Medical Technology	MIC		
Microbiology	PHH, PHI, PHM, PHP		
Philosophy	PHE, PHS, PHY		
Physics	PSY		
Psychology	GRE, REL		
Religious Studies	CLA, HEB		
Ancient Studies	SCE*		
Science	SOC		
Sociology	SSE*		
Social Science Education	WST		
Women's Studies	ZOO		
Zoology	ACG, TAX		
College of Business Administration	GEB		
Accounting	ECO, ECP, ECS, GEB		
Common Body of Knowledge (Graduate)	FIN, REE, RMI		
Economics	BUL, CGS, COC, GEB, MAN		
Finance	COC, CGS, GEB, QMB		
General Business Administration	MAN, QMB		
Information Systems & Decision Sciences	MAR		
Management	EDA, EDS		
Marketing	ADE, PEP, PET		
College of Education	ARE, EDG		
Administration/ Supervision	BTE		
Adult Education	CAP, CGS, EDF, EME		
Art Education	ARE, ENE, FLE, MAE, MCE,		
Business and Office Education	SCE, SED, SSE		
Computers in Education	EGC, SLS		
Content Specializations	EDE, EDG, EDM, ESE, LAE,		
	THE		
Counselor Education	DEC		
Curriculum and Instruction	DAA, PEL, PEM, PEN, PEQ, PET		
	ARE, EDE, EDG, EDS, EEC,		
Distributive & Marketing Education	HLP, LAE, MAE, MUE,		
Physical Education Elective	RED, SCE, SSE		
Elementary Education	LAE		
	FLE		
English Education	EDF, SPS		
Foreign Language Education			
Foundations Education			

COE	Decision Sciences	GRE	Greek (Classics), Religious Studies
COM	Cooperative Education	GRK	Greek (Classics)
COP	Communication	GRW	Greek (Classics)
	Computer Service Courses, Computer Science & Engineering, Library, Media & Information Studies, Mathematics	HBR	Hebrew (Language)
COT	Computer Science & Engineering	HEB	Ancient Studies (Religious Studies)
CPO	Africana Studies, Political Science	HES	Content Specialization, Physical Education for Teachers, Public Health
CRW	English	HIS	History
CWR	Civil Engineering & Mechanics	HLP	Elementary Education
DAA	Dance, Physical Education Elective	HSC	Public Health
DAN	Dance	HUM	Africana Studies, Humanities, Humanities Education
DEC	Distributive & Marketing Education	HUN	Nursing
DEP	Psychology	HUS	Human Services
EAS	Civil Engineering & Mechanics	IDH	Honors Program
ECH	Chemical and Mechanical Engineering	IDS	Honors Program, Liberal Studies, Off-Campus Term
ECI	Civil Engineering and Mechanics	INP	Psychology
ECO	Economics	INR	Africana Studies, International Studies Program, Political Science
ECP	Africana Studies, Economics	ISM	Information Systems & Decision Sciences
ECS	Economics	ISS	Africana Studies, International Studies Program, Social Sciences Interdisciplinary
EDA	Administration/Supervision	ITA	Italian (Language)
EDE	Curriculum, Elementary Education	ITW	Italian (Language)
EDF	Foundations, Measurement-Research, Computers in Education	JPN	Japanese (Language)
EDG	Art Education, Curriculum, Communication-Speech Communication, Elementary Education, Special Education	JOU	Mass Communications
		LAE	Curriculum, Elementary Education, English, English Education
EDH	Higher Education	LAH	History
EDM	Curriculum	LAS	International Studies Program
EDS	Elementary Education, Administration/Supervision	LAT	Latin (Language)
EED	Elementary Education	LEI	Physical Education for Teachers, Sociology
EED	Special Education	LIN	Communication, English, Linguistics
EEL	Computer Science & Engineering, Electrical Engineering	LIS	Library, Media and Information Studies
EES	Civil Engineering & Mechanics	LIT	English, Women's Studies
EEX	Special Education	LNW	Latin (Classics)
EGC	Counselor Education, Rehabilitation Counseling	MAA	Mathematics
EGI	Special Education	MAC	Mathematics
EGM	Civil Engineering & Mechanics	MAD	Mathematics
EGN	Basic & Interdisciplinary Engineering	MAE	Content Specializations, Elementary Education, Mathematics, Mathematics Education
EIA	Industrial & Technical Education	MAN	Foundation Courses in Business (Graduate), General Business Administration, Management
EIN	Industrial & Management Systems Engineering		
EIV	Industrial & Technical Education	MAP	Mathematics
ELD	Special Education	MAR	Marketing
ELR	Electrical Engineering	MAS	Mathematics
EMA	Civil Engineering & Mechanics	MAT	Mathematics
EMC	Chemical & Mechanical Engineering	MCB	Microbiology (Biology)
EML	Chemical & Mechanical Engineering	MEL	Medicine
EMR	Special Education	MET	Geography
ENC	English	MGF	Mathematics
ENE	Computers in Education, Content Specializations	MHF	Mathematics
ENG	English	MIS	Military Science
ENL	English	MLS	Medical Technology
ENU	Chemical & Mechanical Engineering	MMC	Mass Communications
ENV	Civil Engineering and Mechanics	MTG	Mathematics
ENY	Zoology (Biology)	MUC	Music
EPH	Special Education	MUE	Elementary Education, Music Education
ESE	Curriculum	MUG	Music
ESI	Industrial & Management Systems Engineering, Computer Science Engineering	MUH	Anthropology, Music
		MUL	Music
ESL	Linguistics	MUN	Music
ETE	Engineering Technology	MUO	Music
ETG	Engineering Technology	MUS	Music
ETI	Engineering Technology	MUT	Music
EUH	History	MVB	Music
EUS	International Studies Program	MVK	Music
EVI	Special Education	MVP	Music
EVT	Industrial/Technical Education	MVS	Music
EXP	Psychology	MVV	Music
FIL	Mass Communications	MVW	Music
FIN	Finance	NGR	Nursing
FLE	Content Specializations Foreign Language Education, French (Language)	NUR	Nursing
		OCB	Marine Science
FOL	General Foreign Languages	OCC	Marine Science
FOW	Romance (Language)	OCE	Geology, Marine Science
FRE	French (Language)	OCG	Marine Science
FRW	French (Language)	OCP	Marine Science
GEA	Geography	ORI	Communication
GEB	Common Body of Knowledge, Economics, General Business Administration, Information Systems & Decision Sciences	PAD	Public Administration
		PCB	Biology, Marine Science, Microbiology (Biology), Zoology (Biology)
GEO	Geography	PEL	Physical Education Elective
GER	German (Language)	PEM	Physical Education Elective
GEW	German (Language)	PEN	Physical Education Elective
GEY	Gerontology	PEP	Adult Education
GIA	Government & International Affairs	PEQ	Physical Education Elective, Physical Education for Teachers
GLY	Geology	PET	Physical Education Elective, Physical Education for Teachers, Adult
GMS	Medical Sciences, Medicine		

Education	
PGY	Mass Communications, Art
PHH	Philosophy
PHI	Linguistics, Philosophy
PHM	Africana Studies, Philosophy
PHP	Philosophy
PHS	Physics
PHY	Physics
POR	Portuguese (Language)
POS	Political Science, Women's Studies
POT	Political Science
POW	Portuguese (Language)
PPE	Psychology
PSB	Psychology
PSY	Psychology
PUP	Africana Studies, Political Science
PUR	Mass Communications
QMB	Information Systems & Decision Sciences, Management
REA	English
RED	Elementary Education, Reading Education
REE	Finance
REL	Religious Studies, Women's Studies
RMI	Finance
RTV	Mass Communications
RUS	Russian (Language)
RUT	Russian (Language)
RUW	Russian (Language)
SCE	Content Specializations, Elementary Education, Science Education
SED	Communication, Communication-Speech Communication, Speech Communication-English Education Content Specializations
SLS	Counselor Education
SOP	Psychology, Women's Studies
SOW	Human Services, Social Work
SPA	Communication Science & Disorders
SPC	Communication
SPN	Spanish (Language)
SPS	Foundations
SPW	Spanish (Language)
SSE	Content Specialization, Elementary Education, Social Science Education
STA	Mathematics, Social Sciences Interdisciplinary
SUR	Civil Engineering and Mechanics
SYA	Sociology
SYD	Sociology
SYG	Sociology
SYO	Sociology
SYP	Sociology
TAX	Accounting
THE	Theatre
TPA	Theatre
TPP	Theatre
TSL	Linguistics
TTE	Civil Engineering & Mechanics
URP	Geography, Political Sciences, Public Administration
VIC	Mass Communications
WOH	History
WST	History, International Studies Program, Women's Studies
YOR	Yoruba (Language)
ZOO	Biology, Marine Science, Zoology (Biology)

COURSE LEVEL DEFINITION

Lower Level	0000-1999 Freshman Level
	2000-2999 Sophomore Level
Upper Level	3000-3999 Junior Level
	4000-4999 Senior Level
Graduate Level	5000-5999 Senior/Graduate Level
	6000-Up Graduate Level

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 2010. A student who has successfully completed SYG 1010 at the community college is guaranteed to receive transfer credit for SYG 2010 at the state university 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:

- Courses in the _900-999 series (e.g., ART 2905)
- Internships, practica, clinical experiences, and study abroad courses
- Performance or studio courses in Art, Dance, Theater, and Music
- Skills courses in Criminal Justice
- Graduate courses

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 William H. Scheuerle, Dean, Undergraduate Studies, USF, 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 (904) 488-6402 or Suncom 278-6402.

UNIVERSITY-WIDE COURSES

UNIVERSITY OF SOUTH FLORIDA - 1993/94 UNDERGRADUATE CATALOG

COOPERATIVE EDUCATION

Associate Director: Ray Easterlin, Coordinator: Sherri L. Greenberg.

AEROSPACE STUDIES

Professor: Maj Patricia B. Larson; Assistant Professors: Capt James J. Chambers, Capt Darryl E. Rogers, Capt Jeffrey M. Plate.

HONORS PROGRAM

Director: Stuart Silverman (Instructors for the Honors courses are recruited from among the University's outstanding teacher-scholars).

MILITARY SCIENCE

Professor: LTC Joseph Soltas; Assistant Professors: MAJ James A. Fraley, Jr., CPT Gary Killbreath, CPT Michael Morrison, CPT Bernard Samuel.

OFF-CAMPUS TERM

Director: D. Keith Lupton.

AEROSPACE STUDIES

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 1120 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 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 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 WWI 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 3220 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 3231 AIR FORCE LEADERSHIP AND MANAGEMENT-II (3)

A continuation of the study of Air Force advancement and leadership. Concentration is on organizational and personal values,

management of forces in change, organizational power, politics, and managerial strategy and tactics are discussed within the context of the military organization. Actual Air Force cases are used to enhance the learning and communication processes.

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. Students will be expected to prepare individual and group presentations for the class, write reports and otherwise participate in group discussions, seminars, and conferences.

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. Students will be expected to prepare individual and group presentations for the class, write reports and otherwise participate in group discussions, seminars, and conferences. Proficiency in communicative skills must be demonstrated.

ARCHITECTURE

ARC 4784 THE CITY 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

COE 1940 COOPERATIVE EDUCATION, 1ST TRAINING PERIOD (0)

PR: 30 hours of academic credit, acceptance in Cooperative Education Program. (S/U only.)

COE 1941 COOPERATIVE EDUCATION, 2ND TRAINING PERIOD (0)

PR: COE 1940. (S/U only.)

COE 2942 COOPERATIVE EDUCATION, 3RD TRAINING PERIOD (0)

PR: COE 1941. (S/U only.)

COE 2943 COOPERATIVE EDUCATION, 4TH TRAINING PERIOD (0)

PR: COE 2942. (S/U only.)

COE 3944 COOPERATIVE EDUCATION, 5TH TRAINING PERIOD (0)

PR: COE 2943. (S/U only.)

COE 3945 COOPERATIVE EDUCATION, 6TH TRAINING PERIOD (0)

PR: COE 3944. (S/U only.)

COE 4946 COOPERATIVE EDUCATION, 7TH TRAINING PERIOD (0)

PR: COE 3945. (S/U only.)

COE 4947 COOPERATIVE EDUCATION, 8TH TRAINING PERIOD (0)

PR: COE 4946. (S/U only.)

COE 4948 COOPERATIVE EDUCATION, 9TH TRAINING PERIOD (0)

PR: COE 4947. (S/U only.)

COE 4949 COOPERATIVE EDUCATION, 10TH TRAINING PERIOD (0)

PR: COE 4948. (S/U only.)

HONORS PROGRAM

University Honors Students must take all of the following including 2 semesters of either Thesis or Project (but not both).

IDH 2010 ACQUISITION OF KNOWLEDGE (3)

PR: Admission into 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 philosophic questions behind these operations.

IDH 3100 ARTS/HUMANITIES HONORS (3)

PR: IDH 2010. An introduction to western arts and letters from the perspectives of three period's terms (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 (3)

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 (3)

PR: IDH 2010. Introduction to the concerns of the Social and Behavioral Sciences, methods of inquiry, discovery, and validation of knowledge. A survey of the way various disciplines examine the question of how society is organized.

IDH 3600 SEMINAR IN APPLIED ETHICS (3)

PR: IDH 2010. This course explores ethical issues related to selected topics such as Ethics of Technology, Ethics in Business, Bio-Medical Ethics, Personal Ethics Development.

IDH 4000 HONORS PROGRAM SEMINAR (4)

PR: IDH 2010. A course designed to prepare students for independent research. The class will be responsible for determining course content and requirements under the supervision of a faculty mentor.

IDH 4950 HONORS PROJECT (3)

PR: Senior Honors Standing. The development of and public presentation of a special project such as an original musical composition, dramatic piece, etc. under the direction of a mentor. 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.

MILITARY SCIENCE

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 1000 ORGANIZATION OF THE ARMY AND ROTC (1)

Introduction, purpose, and obligation of the Army and ROTC. Introduction to military customs and traditions; rank structure and the role of an Army officer.

MIS 1400 FUNDAMENTALS OF LEADERSHIP DEVELOPMENT (1)

Basic leadership techniques and principles, professional ethics, senior-subordinate relationships, leadership problems, basic counseling and management techniques.

MIS 2601 MILITARY TRAINING MANAGEMENT AND INSTRUCTIONAL TECHNIQUES (1)

Develops an understanding of the fundamental concepts involved with methods of instruction, training management and curriculum development in the military. Actual student preparation and presentation of instruction will be an integral part of the course.

MIS 2610 LEADERSHIP ASSESSMENT (1)

Course will include an introduction to interpersonal skills required for effective leadership and diagnostic leadership assessment exercises. Topics will also include immediate first aid and injury prevention.

MIS 3302 SMALL UNIT OPERATIONS (3)

PR: Permission of Department. Provides training required by junior officer to direct and coordinate individuals and small units in the execution of offensive and defensive tactical missions. Also provides exposure to military weapons and communications systems found at this level.

MIS 3404 LEADERSHIP FUNDAMENTALS - TACTICS AND CAMP PREPARATION (3)

PR: Permission of Department. Improves cadet proficiency in those military subjects necessary to meet minimum standards of technical competence and self-confidence required of a junior officer in the U.S. Army. Prepares cadets for participation at Advanced Camp. Major emphasis during course is placed on physical training and field training exercises.

MIS 4002 ARMY AS A PROFESSION (2)

PR: Permission of Department. 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 & MANAGEMENT (3)

PR: Permission of Department. 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 NCOs, company grade officers, and senior officers.

MIS 4930 ADVANCED DIRECTED STUDY AND RESEARCH (1-3)

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.

OFF-CAMPUS TERM**IDS 4900 DIRECTED READINGS (1-4)**

PR: OCT Program approval. Open to all students approved for OCT Program. Provides students with community related readings. May be repeated up to 8 credit hours.

IDS 4910 DIRECTED RESEARCH (1-4)

PR: OCT Program approval. To provide students with community related research experience in areas of specific interest. May be repeated up to 8 credit hours.

IDS 4942 OFF-CAMPUS TERM SOCIAL ACTION PROJECT (1-4)

PR: OCT Program approval. May be repeated up to 4 credit hours. (S/U only.)

IDS 4943 OFF-CAMPUS TERM SPECIAL PROJECT (1-2)

PR: OCT Program approval. (S/U only.)

IDS 4955 OFF-CAMPUS TERM INTERNATIONAL PROGRAM (1-2)

PR: OCT Program approval. (S/U only.)

PUBLIC AND COMMUNITY HEALTH EDUCATION COURSES**HSC 2100 CONTEMPORARY HEALTH SCIENCE (3)**

A comprehensive approach to health concerns and problems in contemporary society, including methods of assessing individual health needs.

HSC 4203 INTRODUCTION TO PUBLIC HEALTH (3)

A survey of policies and programs in public/community health with emphasis on specific needs and problems of Florida.

HSC 4223 PREVENTIVE HEALTH PRACTICES IN THE WORKPLACE (3)

PR: CI. The content of this course focuses on a survey of health problems and concerns as they exist in a variety of work environments. No prior education or experience in this area is required.

HSC 4541 HUMAN STRUCTURE AND FUNCTION (3)

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.

HSC 4554 SURVEY OF HUMAN DISEASES (3)

PR: Fundamentals of Biology with lab or CI. An overview of the nature, types, and mechanisms of diseases of the major body systems.

HSC 4933 SPECIAL TOPICS: PUBLIC HEALTH (1-6)

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.

HSC 5319 HEALTH PROBLEMS OF SCHOOL AGE POPULATION (3)

A study of health problems and needs of school age students, including a health status screening laboratory.

COLLEGE OF ARTS AND SCIENCES

UNIVERSITY OF SOUTH FLORIDA - 1993/94 UNDERGRADUATE CATALOG

AFRICANA STUDIES

Director: N. C. James; *Associate Professors:* K. R. Glover, N. C. James; *Assistant Professor:* T. W. Purcell; *Other Faculty:* F. U. Ohaegbulam, L. W. Morehouse, P. J. Collins, K. Davis, J. B. Moore, H. Regis, P. Ruffin, A. A. Smith, S. M. D. Stamps, P. Taylor, K. Vaz, K. Wiredu.

AMERICAN STUDIES

Program Director: Amy Sparks; *Professors:* J. B. Moore, R. E. Snyder; *Associate Professors:* R. A. Banes, P. J. Brewer; *Other Faculty:* S. A. Zylstra.

ANTHROPOLOGY

Chairperson: S. D. Greenbaum; *Distinguished Service Professor:* A. W. Wolfe; *Professors:* M. V. Angrosino, R. T. Grange, Jr., G. Kushner, A. Shiloh, C. W. Wienker, J. R. Williams; *Associate Professors:* R. D. Baer, S. D. Greenbaum, J. J. Smith, P. Waterman, N. M. White, L. M. Whiteford; *Assistant Professors:* S. B. Burkhalter, L. Madrigal; *Courtesy Faculty:* C. Bryant, A. Chairetakis, J. Coreil, N. Henderson, T. Purcell, J. D. Uzzell, M. D. Vesperi.

ASTRONOMY

Director: C. A. Williams; *Professor:* C. A. Williams (Mathematics Department); *Visiting Professor:* G. Hammond.

BACHELOR OF INDEPENDENT STUDIES

Director: K. E. Kearney; *Area Coordinators:* J. Bell (BIS Humanities), H. Mushinsky (BIS Natural Sciences), P. Waterman (BIS Social & Behavioral Sciences).

BIOLOGY

Chairperson: J. T. Romeo; *Distinguished Research Professors:* C. J. Dawes, G. E. Woolfenden; *Professors:* M. R. Alvarez, S. S. Bell, B. C. Cowell, F. E. Friedl, G. W. Hinsch, J. M. Lawrence, D. V. Lim, R. L. Mansell, E. D. McCoy, J. C. Ogden, R. Richmond, C. Riggs, G. G. Robinson, J. T. Romeo, J. L. Simon, S. L. Swihart, D. TeStrake, R. P. Wunderlin; *Professor Emeritus:* W. S. Silver; *Associate Professors:* G. W. Arendash, B. J. Cochrane, M. L. Dao, F. I. Eilers, F. B. Essig, P. J. Motta, H. R. Mushinsky, M. J. Saunders, G. J. Stewart; *Assistant Professors:* D. D. Dunigan, S. C. Edwards, M. Rogers, P. D. Stiling; *Lecturer:* C. Hendry.

CHEMISTRY

Chairperson: S. W. Schneller; *Distinguished Research Professors:* R. M. Castle, B. Stevens; *Distinguished Service Professor:* D. F. Martin; *Professors:* J. S. Binford, Jr., R. S. Braman, J. C. Davis, Jr., J. E. Fernandez, G. R. Jurch, Jr., L. Mandell, P. C. Maybury, G. Meisels, G. R. Newkome, E. D. Olsen, T. C. Owen, S. W. Schneller, R. D. Whitaker, J. H. Worrell; *Associate Professors:* S. H. Grossman, M. D. Johnston, Jr., R. M. O'Malley, J. A. Stanko, J. E. Weinzierl, G. R. Wenzinger; *Assistant Professors:* A. T. D'Agostino, L. J. Ming, J. Robert; *Adjunct Faculty:* J. A. Barltrop, R. Benson; *Courtesy Faculty:* M. Ben, D. P. Borris, R. Conan, B. B. Martin, W. Menyhert, J. W. Palmer, L. H. Garcia-Rubio, W. E. Swartz, Jr.

CLASSICS

Director: TBA; *Professor:* A. L. Motto; *Associate Professor:* J. D. Noonan; *Assistant Professor:* J. S. Campbell; *Other Faculty:* J. R. Clark, W. M. Murray, J. F. Strange, G. K. Tipps.

COMMUNICATION

Chairperson: T. L. Albrecht; *Professors:* T. L. Albrecht, A. P. Bochner, K. N. Cissna, L. S. Pettegrew, R. J. Schneider; *Associate Professors:* B. F. Downs, C. J. Jablonski, N. C. James, A. D. Payne, M. L. Vanderford; *Assistant Professors:* E. E. Bell, M. G. Garko, M. Neumann; *Other Faculty:* D. H. Smith.

COMMUNICATION SCIENCES AND DISORDERS

Chairperson: A. M. Guilford; *Professors:* A. M. Guilford, S. I. Ritterman, J. F. Scheuerle, D. C. Shepherd, E. R. Silliman, W. Strange; *Associate Professors:* J. B. Crittenden; *Assistant Professors:* T. Hnath-Chisolm, L. Mack; *Instructors:* N. Diss, C. Fernandez, M.

Witkind; *Visiting Instructor:* S. Diehl, H. Techler; *Distinguished Professor:* S. O. Richardson; *Other Faculty:* W. T. Collins, K. Hollahan, B. Loeding.

CRIMINOLOGY

Chairperson: W. R. Blount; *Professors:* W. R. Blount, R. Dembo, I. J. Silverman, M. Silverman, L. Territo; *Associate Professors:* J. B. Halsted, K. M. Heide, T. Mieczkowski, J. T. Reilly, R. M. Stanford, M. Vega; *Assistant Professors:* C. Greek, C. Sellers, L. Smith; *Courtesy Appointment:* J. Feegal; *Academic Administrator:* M. Johnson.

ENGLISH

Chairperson: W. T. Ross; *Professors:* J. P. W. Rogers (DeBartolo Chair in the Liberal Arts), L. R. Broer, J. R. Clark, S. M. Deats, H. A. Deer, I. Deer, R. F. Dietrich, F. J. Fabry, S. R. Fiore, W. Garrett, J. S. Hatcher, E. F. Henley, J. P. Hinz, E. W. Hirshberg (Emeritus), J. J. Iorio, D. L. Kaufmann, J. B. Moore, W. E. Morris, G. A. Olson, R. S. Pawlowski, W. D. Reader, W. T. Ross, S. J. Rubin, W. H. Scheuerle, E. E. Smith, D. A. Wells; *Associate Professors:* R. M. Baum, A. G. Bryant, R. E. Chisnell, R. M. Figg III, R. E. Hall, M. C. Harmon, W. J. Heim, R. L. Hewitt, J. W. Holman, E. A. Metzger, J. M. Moxley, P. J. Sipiora, N. J. Tyson, R. D. Wyly, Jr. *Assistant Professors:* P. J. Collins, E. A. Hirsh, F. T. Mason, F. J. Zbar; *Lecturers:* I. F. Ceconi (Emerita), V. W. Valentine (Emerita).

GEOGRAPHY

Chairperson: R. T. Aangeenbrug; *Professors:* R. T. Aangeenbrug, D. M. Stowers; *Professor Emeritus:* R. H. Fuson; *Associate Professors:* H. J. Schaleman, J. W. Stafford; *Assistant Professors:* K. Archer, R. Brinkmann, J. E. Garcia, M. B. Lindberg; *Lecturer:* R. C. Holmes.

GEOLOGY

Chairperson: M. T. Stewart; *Professors:* R. A. Davis, Jr., M. T. Stewart, S. B. Upchurch, H. L. Vacher; *Associate Professor:* M. J. Defant; *Assistant Professors:* T. M. Quinn, L. L. Robbins, J. G. Ryan, E. Snow; *Courtesy Faculty:* *Professors:* R. B. Halley, A. Rosenzweig, A. H. Sallenger, T. M. Scott; *Research Associates:* P. E. Desautels, B. W. Leyden, G. Schwartzman, R. Stewart; *Assistant Curators:* B. R. Marcin, E. J. Marcin.

GERONTOLOGY

Chairperson: L. C. Mullins; *Professors:* L. C. Mullins, T. A. Rich, S. V. Saxon, H. Sheppard; *Associate Professors:* J. L. Garcia, W. P. Mangum; *Adjunct Professors:* C. Barresi, K. Bates, B. Burton, D. Burr, M. Etten, J. Freeman, J. N. Henderson, M. Mushel, H. Susik.

HISTORY

Chairperson: R. P. Ingalls; *Distinguished Research Professor:* L. A. Perez, Jr.; *Professors:* R. O. Arsenault, J. M. Belohlavek, C. B. Currey, R. P. Ingalls, G. H. Mayer, G. R. Mormino; *Associate Professors:* D. R. Carr, G. H. Kleine, W. M. Murray, K. A. Parker, E. M. Silbert, J. M. Swanson, G. K. Tipps; *Assistant Professors:* G. Benadusi, F. Otanelli, K. Paul, R. J. Van Neste; *Other Faculty:* C. W. Arnade.

HUMANITIES

Chairperson: A. J. Sparks; *Professors:* C. B. Cooper, S. L. Gaggi, T. B. Hoffman (Emeritus), H. Juergensen (Emeritus), G. S. Kashdin (Emerita), E. M. MacKay (Emerita), D. Rutenberg, A. J. Sparks, S. A. Zylstra; *Assistant Professor:* J. D'Emilio; *Courtesy Professor:* Laszlo J. Hetenyi.

INTERDISCIPLINARY SOCIAL SCIENCES

Director: J. B. Snook; *Professor:* S. M. D. Stamps, Jr.; *Associate Professor:* J. B. Snook; *Lecturer:* R. Gagan.

INTERNATIONAL STUDIES

Director: TBA; *Professors:* C. W. Arnade, H. W. Nelsen, M. T. Orr; *Associate Professors:* M. M. Amen, R. Barylski, A. Hechiche, S. S. Northcutt, D. Slider; *Assistant Professors:* E. Conteh-Morgan, P. Ruffin; *Assistant Professor Emeritus:* J. W. Palm; *Joint Appointments:* *Professors:* F. U. Ohaegbulam, S. D. Stamps, H. Vanden; *Associate Professor:* K. R. Glover, R. Khator; *Assistant Professor:* M. Milani.

LIBRARY AND INFORMATION SCIENCE

Interim Director: A. Prentice; *Professors:* J. A. McCrossan, F. C. Pfister, A. Prentice; *Professor Emeritus:* J. K. Gates, A.G. Smith; *Associate Professors:* B. El-Hadidy, J. M. Knejo, H. M. Smith, T. C. Wilson; *Courtesy Associate Professor:* Y. L. Ralston; *Assistant Professor:* V. Gregory.

MARINE SCIENCE

Chairperson: P. R. Betzer; *Professors:* N. J. Blake, R. H. Byrne, K. L. Carder, L. J. Doyle, K. A. Fanning, P. Hallock-Muller, A. C. Hine, T. L. Hopkins, J. H. Paul, W. M. Sackett, J. J. Torres, E. S. Van Vleet, J. J. Walsh, R. H. Weisberg; *Professors Emeriti:* J. C. Briggs, H. J. Humm; *Associate Professors:* J. S. Compton, B. Galperin, M. E. Luther, G. A. Vargo, R. R. Wilson, Jr.; *Assistant Professors:* P. G. Coble, F. Muller-Karger, D. F. Naar; *Courtesy Professors:* R. A. Davis, B. Halley, C. W. Holmes, G. Litman, W. R. Parker, A. Sallenger, S. Schott, A. C. Smith, Y. Tardy; R. Wollast; *Courtesy Associate Professors:* R. C. Baird, S. B. Gallagher, G. E. Rodrick, K. A. Steidinger; *Courtesy Assistant Professor:* A. B. Meylan, R. G. Muller, E. C. Peters, J. E. Reynolds; *Courtesy Lecturers:* R. A. Davis, S. Gallagher, S. Schott.

MASS COMMUNICATIONS

Director: D. L. Dickerson; *Professors:* R. Dardenne, D. L. Dickerson, R. L. Kerns, G.M. Killenberg, M. Lucoff; *Associate Professors:* D. S. Bagley III, T. M. Counts, W. G. Fudge, L. Z. Leslie, H. Regis; *Assistant Professors:* K. F. Brown, R. Miller, B. K. Petersen, G. Werner, R. Wilber; *Lecturers:* S. Laurion, D. Togio Jr; *Professors Emeriti:* A. M. Sanderson; *Courtesy Professors:* W. M. Brady, R. B. Brown, R. J. Haiman, P. A. Kemp, W. A. Morse, D. B. Rochelle, K. D. Stanton, J. E. Young.

MATHEMATICS

Chairperson: K. L. Pothoven; *Distinguished Research Professor:* E. B. Saff; *Professors:* W. E. Clark, A. W. Goodman, M. Ismail, A. G. Kartsatos, J. J. Liang, Y. F. Lin, M. N. Manougian, A. Mukherjee, R. K. Nagle, A. N. V. Rao, J. S. Ratti, V. Totik, C. P. Tsokos, C. A. Williams; *Professors Emeriti:* J. R. Britton, D. C. Rose; *Associate Professors:* R. W. R. Darling, S. Isaak, S. Y. Lin, G. L. McCollm, M. M. McWaters, M. E. Parrott, K. L. Pothoven, J. H. Reed, B. Shekhtman, W. R. Stark, E. A. Thieleker, Y. You, F. J. Zerla; *Assistant Professors:* R. W. Oberste-Vorth, J. F. Pedersen, K. M. Ramachandran, W. E. Williams.

MEDICAL TECHNOLOGY

Director: C. F. Hendry; *Courtesy Professors:* L. McCann (Baptist Medical Center), I. L. Browarsky (Tampa General Hospital), W. Burgert (Tallahassee Memorial Regional Medical Center), L. J. Davis, (Bayfront Medical Center), N. M. Hardy (University Medical Center/Jacksonville), R. F. Holcomb (Florida Hospital), F. C. Holland (Baptist Medical Center), R. Poppiti, Jr. (Mount Sinai Medical Center); *Courtesy Lecturers:* S. Pemberton (Baptist Medical Center), S. Carreiro (Mount Sinai Medical Center), L. Ferguson (Tampa General Hospital), A. Plagge (Tallahassee Memorial Regional Medical Center), P. Rogers (Florida Hospital), J. Schurig (Bayfront Medical Center), J. Sigler (University Medical Center).

MODERN LANGUAGES & LINGUISTICS

Director: R.W. Cole; *Professors:* G. A. Brulotte, C. W. Capsas, C. J. Cargill, R.W. Cole, D. Ierardo, E. J. Neugaard, R. C. O'Hara, V. E. Peppard, R. A. Preto-Rodas, R. A. Stelzmann, C. E. Scruggs; *Associate Professors:* J. C. Caffisch, C. J. Cano, R. A. Cherry, Jr., M. Esformes, W. H. Grothmann, W. R. Hampton, C. M. Probes, J. C. Tatum.

PHILOSOPHY

Chairperson: J. A. Bell; *Professors:* J. P. Anton, J. A. Bell, J. A. Gould, L. L. McAlister, B. Silver, W. H. Truitt, R. C. Weatherford, K. Wiredu; *Distinguished Research Professors:* K. S. Shrader-Frechette, S. P. Turner; *Associate Professors:* R. N. Taylor, J.B. Waugh; *Courtesy Associate Professor:* M. Myerson; *Courtesy Professor:* D. J. Fasching.

PHYSICS

Chairperson: S. Sundaram; *Professors:* S. C. Bloch, S. R. Deans, N. Djieu, R. W. Flynn, N. C. Halder, L. Jastrzebski, W. D. Jones, D. K. Killinger, J. Lagowski, S. Sundaram; *Professor Emeritus:* Guy Forman; *Associate Professors:* J. L. Aubel, H. R. Brooker, R. S. F. Chang, R. W. Clapp, L. Clarke; *Assistant Professors:* Pritish Mukherjee, S. Witanachchi; *Lecturer:* D. D. Spurgin.

POLITICAL SCIENCE

Director: M. T. Gibbons; *Professors:* R. A. Factor, S. MacManus, F. U. Ohaegbulam, H. E. Vanden; *Associate Professors:* J. E. Benton, M. T. Gibbons, K. R. Glover, W. E. Hulbary, A. E. Kelley, R. M. Khator, A. B. Levy, D. G. Paulson, P. N. Rigos; *Assistant Professors:* M. M. Milani, L. W. Morehouse; *Joint Appointments:* Professors: C. W. Arnade, J. E. Jreisat, D. C. Menzel, H. W. Nelsen; *Associate Professors:* R. Barylski, D. Slider, J. B. Snook; *Assistant Professors:* E. Conteh-Morgan, D. Rahm.

PSYCHOLOGY

Chairperson: E. L. Levine; *Distinguished Research Professors:* J. J. Jenkins, C. D. Spielberger; *Professors:* J. M. Anker, W. C. Borman, J. L. Brown, M. A. Finkelstein, R. Fowler, E. L. Gesten, M. S. Goldman, M. W. Hardy, B. N. Kinder, R. C. LaBarba, E. L. Levine, C. E. Nelson, D. L. Nelson, L. A. Penner, R. W. Powell, W. P. Sacco, J. Sandler, J. B. Sidowski, F. Sistrunk, P. E. Spector, D. E. Stenmark, P. N. Strong; *Professor Emeritus:* H. H. Meyer; *Associate Professors:* J. A. Becker, T. M. Brannick, J. M. Clingman, M. D. Coovet, D. McGuinness, J. K. Thompson; *Assistant Professors:* M. L. Carter, C. R. Cimino, V. Phares, T. Sanocki, S. Schneider-Wright, T. Shimizu; *Courtesy, Adjunct, & Joint Appointments:* K. E. Achenbach, H. P. Bahrack, B. A. Casasa, H. B. Clark, M. E. Clark, M. T. Dickey, M. G. Dow, J. A. Eison, D. Goldsmith, K. Jenkins-Hall, N. R. Hall, W. L. Hartman, E. B. Kimmel, M. D. Knox, W. E. Lee III, P. Martin, C. L. McEvoy, D. McKinstry, K. McNelis, J. Robyak, E. Salas, P. Sanberg, L. Schonfeld, W. P. Schultz, D. V. Sheehan, A. A. Smith, L. Smith, M. L. Stedman, T. F. Stokes, R. Vanderploeg, S. Walfish, I. R. Weiner, H. C. West, G. L. Wood, S. Zheutlin.

PUBLIC ADMINISTRATION

Director: W. J. Pammer, Jr.; *Professors:* J. E. Jreisat, S. A. MacManus, D. C. Menzel; *Associate Professor:* W. J. Pammer, Jr.; *Assistant Professors:* J. L. Daly, M. Y. Mongkuo, D. Rahm; *Joint Appointments:* Associate Professors: J. E. Benton, R. Khator, P. N. Rigos, D. G. Paulson.

REHABILITATION COUNSELING

Chairperson: J. D. Rasch; *Professors:* J. F. Dickman, W. G. Emener, J. D. Rasch; *Associate Professors:* M. J. Landsman, C. M. Pinkard, T. J. Wright; *Lecturer:* L. Burnam.

RELIGIOUS STUDIES

Chairperson: D. J. Fasching; *Professors:* D. J. Fasching, D. Jorgensen, N. Katz, J. F. Strange, W. C. Tremmel; *Distinguished Research Professor:* J. Neusner; *Associate Professors:* S. Mandell, M. G. Mitchell; *Other Faculty:* J. S. Hatcher, E. E. Smith.

SOCIAL WORK

Director: B. L. Yegidis; *Professors:* T. J. Northcutt, Jr., B.L. Yegidis; *Associate Professors:* J. A. Giordano, T. U. Hancock, W. S. Hutchison, Jr., P. R. Newcomb, A. A. Smith, P. L. Smith, R. J. Wilk; *Assistant Professors:* P. A. d'Oronzio, C. S. Roberts, A. L. Strozier; *Courtesy Faculty:* Associate Professor: M. L. Coulter.

SOCIOLOGY

Chairperson: D. Harper; *Professors:* R. Francis, D. Harper, D. Stamps, R. Wheeler; *Associate Professors:* G. Brandmeyer, C. Ellis, B. Gunter, R. A. Hansen, M. B. Kleiman, H. A. Moore, M. Orru; *Assistant Professors:* J. Friedman, L. Graham, L. Kutcher; *Lecturer:* S. Green.

WOMEN'S STUDIES

Chairperson: J. B. Snook; *Professors:* L. L. McAlister, J. Ochshorn; *Associate Professors:* M. Myerson, J. B. Snook; *Assistant Professors:* J. E. Borchert, G. Grewal, K. Vaz; *Courtesy Associate Professors:* R. A. Banes, N. Norvell, L. M. Whiteford; *Other Faculty:* E. B. Breit.

AFRICANA STUDIES**AFA 2000 INTRODUCTION TO THE BLACK EXPERIENCE**

[IN AFRICA AND ITS DIASPORA] -6A (3)
Fundamental perspectives on the nature and significance of the Black Experience in Africa and the black communities in the Americas.

AFA 4150 AFRICA AND THE UNITED STATES (3)

An examination of the historical and current political, economic, and cultural relations between the United States and Africa. (Also listed under International Studies.)

AFA 4331 SOCIAL INSTITUTIONS AND THE AFRICAN-AMERICAN COMMUNITY (3)

A study of social institutions as they relate to the African-American Community, with emphasis on social systems operating within and on the African-American community.

AFA 4335 BLACK WOMEN IN AMERICA (3)

An interdisciplinary survey 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 (2-3)

Independent readings in a particular area of African and Afro-American Studies, selected by student and instructor.

AFA 4931 SELECTED TOPICS IN AFRO-AMERICAN STUDIES (1-3)

Topics offered are selected to reflect student needs and faculty interests. In depth study in such areas as the Black Student and the American Educational Process; the Black Experience in the Americas; European Expansion in Africa to 19th century; Contemporary Economic Problems in Africa.

AFH 3100 AFRICAN HISTORY TO 1850 (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 listed under History.)

AFH 3200 AFRICAN HISTORY SINCE 1850 (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 post independence problems of nation building and economic development. (Also listed under History.)

AFS 2250 CULTURE AND SOCIETY IN AFRICA (3)

Topics include: African religion, value systems, art and the aesthetics, family and life-cycle, impact of Islam and Christianity and conflict of cultures.

AMH 3571 AFRO-AMERICAN HISTORY TO 1865 (3)

A survey of the Afro-American history in the Western Hemisphere. Emphasis on the experience in North America (1493-1865)

AMH 3572 AFRO-AMERICAN HISTORY SINCE 1865 (3)

A survey of the Afro-American history in the Western Hemisphere. Emphasis on the experience in North America 1865 to present.)

AML 3271 BLACK LITERATURE (3)

A study of black 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 under English Department.)

AMS 3700 RACISM IN AMERICAN SOCIETY (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 American Studies.)

ANT 4340 THE CARIBBEAN - 6A (3)

PR: ANT 3410 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 Anthropology.)

CPO 4204 GOVERNMENT AND POLITICS OF AFRICA (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 POLITICS (3)

Study of international relations in the new Africa including the relations of the new states with major world powers and their role in the United Nations.

PHI 4074 AFRICAN PHILOSOPHY (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 (3)

Survey of major themes of black leaders and participants in the global liberation.

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.

AMERICAN STUDIES**AMS 2030 INTRODUCTION TO AMERICAN STUDIES (3)**

An overview of American Studies, the interdisciplinary study to 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 2363 ISSUES IN AMERICAN CIVILIZATION (2)

Through lecture and demonstration an examination of selected topics such as natural environment 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. Repeatable up to 6 credit hours.

AMS 3001 AMERICA AT THE TURN OF THE CENTURY -6A (4)

Integration of major aspects of American life between the 1880s and World War I.

AMS 3201 THE COLONIAL PERIOD (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 3210 REGIONS OF AMERICA (4)

The pattern of American culture as revealed through an examination of selected writings and other pertinent materials dealing with selected 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 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 (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. (Also offered under Women's Studies.)

AMS 3601 MATERIAL CULTURE AND AMERICAN SOCIETY (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, automobiles, and the material subcultures of women, African-Americans and communal societies.

AMS 3700 RACISM IN AMERICAN SOCIETY (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 time.

AMS 4910 INDIVIDUAL RESEARCH (1-4)
The content of the course will be governed by student demand and instructor interest. Instructor approval required prior to registration.

AMS 4930 SELECTED TOPICS IN AMERICAN STUDIES (1-4)
PR: Senior in American Studies or CI. Offerings include American Painting: its social implications, 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 (4)
PR: Senior in American Studies or CI.

AMS 4936 SENIOR SEMINAR IN AMERICAN STUDIES (4)
PR: Senior in American Studies.

PGY 3000 PHOTOGRAPHY IN AMERICAN CULTURE (3)
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.

ANCIENT STUDIES

See Religious 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 (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 2005 THE ANTHROPOLOGICAL PERSPECTIVE (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 3100 ARCHAEOLOGY (3)
PR: ANT 2000 or CI. 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 3410 CULTURAL ANTHROPOLOGY (3)
PR: ANT 2000 or CI. Discussion of major methods of 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 lifestyles.

ANT 3511 BIOLOGICAL ANTHROPOLOGY (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 (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 4008 CULTURE AND HUMAN EVOLUTION (3)
PR: ANT 3511 or CI. A survey of the many ways in which behavior and technology influence the biology of prehistoric and modern human populations. Phenomena such as mating practices, urbanization, and dietary habits are related to humans as animals. Behavior genetics and sociobiology are covered.

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)
PR: ANT 3100 or CI. Normally offered as part of a Summer Field Session. Students also take Florida Archaeology and Laboratory Methods in Archaeology. Emphasis on appropriate methods of archaeological excavation and recovery and recording of data.

ANT 4153 NORTH AMERICAN ARCHAEOLOGY - 6A (3)
PR: ANT 3100 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 3100 or CI. The content of prehistoric cultures such as PaleoIndian, Weeden Island, and Safety Harbor are reviewed and examined in terms of their temporal and spatial relationships to each other and the Eastern U.S. Normally offered as part of a Summer Field Session. Students also take Field Methods in Archaeology and Laboratory Methods in Archaeology.

ANT 4162 SOUTH AMERICAN ARCHAEOLOGY (3)
PR: ANT 3100 or CI. Describes and analyzes the sequence of cultural development in prehistoric South America. Cultures such as the Inca, Chavin, Mochica, Wari, Chimu 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 3100 or CI. The chronological sequence from its beginnings through Protohistoric development is described and analyzed. Cultures such as the Maya, Aztec, Mixtec, Zapotec, Olmec, and Toltec 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 3100 or CI. A survey and analysis of archaeology focused on the historic period. Laboratory research with data recovered from historic sites in addition to classwork.

ANT 4180 LABORATORY METHODS IN ARCHAEOLOGY (4)
PR: ANT 3100 or CI. Normally offered as part of a Summer Field Session. Students also enroll in Florida Archaeology and Field Methods in Archaeology. Data recovered in excavation are cleaned, catalogued, identified, and analyzed in the laboratory.

ANT 4181 MUSEUM METHODS (4)
PR: ANT 3100 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 3410 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 crosscultural 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 3410 or CI. Focuses on crosscultural 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 (3)

PR: ANT 3410 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 4302 SEX ROLES IN CROSS-CULTURAL 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. (Also offered under Women's Studies.)

ANT 4305 VISUAL ANTHROPOLOGY (3)

PR: ANT 3410 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 uses of visual techniques and the evidence they provide to the social scientist.

ANT 4312 NORTH AMERICAN INDIANS (3)

PR: ANT 3410 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 THE UNITED STATES (3)

PR: ANT 3410 or CI. Special concerns include the American community, change and continuity in American values and lifestyles, and the historical background and recent manifestations of human problems in the United States.

ANT 4324 MEXICO AND CENTRAL AMERICA - 6A (3)

PR: ANT 3410 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 (3)

PR: ANT 3410 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 4367 THE MIDDLE EAST (3)

PR: ANT 3410 or CI. Delineates the environment and cultural ecology of the Middle East and analyzes how they have influenced the variety of subcultures of the region. The rise and fall of the "little tradition" of the enduring folk cultures will be analyzed. Contemporary culture change will be analyzed in a temporal perspective.

ANT 4432 THE INDIVIDUAL AND CULTURE - 6A (3)

PR: ANT 3410 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 3410 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 3410 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 in 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 formation, selection of data collection techniques, 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 4552 EVOLUTIONARY BIOLOGY OF THE PRIMATES (3)

PR: ANT 3511 or CI. A survey of non-human primates focusing on biological and evolutionary patterns. Anatomy, genetics, and evolution are stressed; major primate types are surveyed for their biological adaptation. Primate sociobiology is discussed.

ANT 4583 PREHISTORIC HUMAN EVOLUTION (3)

PR: ANT 3511 or CI. A survey of the fossil record from the early primates through the ascent of *Homo sapiens sapiens*, focusing on the human lineage. Biosocial patterns and cultures of the past are also covered.

ANT 4587 HUMAN VARIATION (3)

PR: ANT 3511 or CI. An overview of evolution and biological variations of human races. Anatomical, morphological, and physiological patterns are surveyed geographically. Cultural influences on racial biology are explored.

ANT 4620 LANGUAGE AND CULTURE - 6A (3)

PR: ANT 3610 or CI. Examines the relationships between language and culture in crosscultural perspective. Explores the extent to which languages shape the world views of their speakers. Emphasis on the nature and degree of fit between linguistics and other cultural systems of knowledge.

ANT 4705 APPLIED ANTHROPOLOGY (3)

PR: ANT 3410 or CI. A review of approaches applying the anthropological perspective to contemporary human problems. Particular emphasis placed on public policy issues in United States society. Discussion of the historical development of applied anthropology, problems of economic development of the Third World, and the ethics of applied research and intervention.

ANT 4750 LANGUAGE AND SOCIAL INTERACTION - 6A (3)

PR: ANT 3610 or CI. Examines the role of language and other modes of communication in the social settings of speech communities. Student field projects focus on the crosscultural description and analysis of patterns of communication in ethnographic contexts.

ANT 4901 DIRECTED READING (1-4)

PR: CI. Individual guidance in concentrated reading on a selected topic in anthropology. Contract required prior to registration.

ANT 4907 INDIVIDUAL RESEARCH (2-4)

PR: CI. Individual guidance in a selected research project. Contract required prior to registration.

ANT 4930 SPECIAL TOPICS IN ANTHROPOLOGY (3)

PR: CI. Topics to be chosen by students and instructor permitting newly developing interdisciplinary special interests to be explored. May be repeated as topics vary.

ANT 4932 HONORS SEMINAR (4)

PR: Admission to the honors program in anthropology and CI. Seminar designed to provide the honors student with an opportunity to present, discuss and defend his/her own research and to explore in-depth topics in several areas of anthropology.

ANT 4935 RETHINKING ANTHROPOLOGY - 6A (3)

PR: Senior standing with major in anthropology, or equivalent. Through discussion of readings and student papers, students rethink and reevaluate anthropology as a discipline and the integration of its branches and specialty fields. Students develop and

articulate their current images of anthropology.

ANT 4970 HONORS THESIS (3)

PR: Admission to the honors program, completion of the honors seminar and CI. The student under the supervision of a faculty member will formalize, conduct, analyze, and report in writing a research project in anthropology. (S/U only.)

ANT 5904 DIRECTED READING (1-4)

PR: CI. Individual guidance in concentrated reading on a selected topic in anthropology. Contract required prior to registration.

ANT 5915 INDIVIDUAL RESEARCH (2-4)

PR: CI. Individual guidance in a selected research project. Contract required prior to registration.

ANT 5937 SEMINAR IN ANTHROPOLOGY (2-4)

PR: Graduate standing. Topics to be chosen by students and instructor.

MUH 4054 FOLK MUSIC (3)

PR: ANT 3410 or CI. Examines ethnic musics in America, emphasizing the functions of folk music in rural and urban settings. Materials drawn crossculturally are studied in both religious and secular forms. When feasible, classwork is supplemented by live performances. Technical knowledge of music is not required. (May not be counted for credit toward an Anthropology major.)

ASTRONOMY

AST 2005 ASTRONOMY OF THE SOLAR SYSTEM (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 (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 2032C ILLUSTRATIVE 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 (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 3044C ARCHAEOASTRONOMY (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 5506 INTRODUCTION TO CELESTIAL MECHANICS (3)

PR: MAC 3313 or MAC 3283 and some knowledge of differential equations, or CI. The two-body problem, introduction to Hamiltonian systems and canonical variables, equilibrium solutions and stability, elements of perturbation theory.

AST 5932 SELECTED TOPICS IN ASTRONOMY (1-5)

PR: Senior or advanced junior standing or CI. Intensive coverage of special topics to suit needs of advanced students.

Bachelor of Independent Studies

State University System External Degree Program

See program description in College Section under College of Arts and Sciences for description of curriculum components.

HUM 4909 BIS HUMANITIES, INDEPENDENT STUDY (15)

HUM 4939 BIS HUMANITIES, SEMINAR (15)

PR: BIS HUM 4909 or CI (S/U only)

ISC 4909 BIS NATURAL SCIENCES, INDEPENDENT STUDY (15)

ISC 4939 BIS NATURAL SCIENCES, SEMINAR (15)

PR: BIS ISC 4909 or CI (S/U only)

ISS 4909 BIS SOCIAL SCIENCES, INDEPENDENT STUDY (15)

ISS 4939 BIS SOCIAL SCIENCES, SEMINAR (15)

PR: BIS ISS 4909 or CI (S/U only)

IDS 4990 BIS INTER-AREA STUDIES (30)

PR: ISS 4909, ISS 4939, ISC 4909, ISC 4939, HUM 4909, HUM 4939.

BIOLOGY

BSC 1005 PRINCIPLES OF BIOLOGY FOR NON-MAJORS (3)

Lectures and demonstrations of selected biological principles, usually taught by television. For non-majors only. No credit for Biology Majors.

BSC 2010C BIOLOGY II - CELLULAR PROCESSES (4)

PR: CHM 2041. An analysis of biological systems at the cellular and subcellular levels: cell structure and function, respiration, photosynthesis, mitosis and meiosis, genetics, gene expression, and evolution. The course is designed for majors and has a laboratory associated with the lecture.

BSC 2011C BIOLOGY I - BIOLOGICAL DIVERSITY (4)

An analysis of biological systems at the organismal and supraorganismal levels: unity and diversity of life, organismal structure and function, and ecology. The course is recommended to be taken before Biology II (BSC 2010C). This course is restricted to majors and has a laboratory associated with the lecture.

BSC 2025 FOOD AND DRUGS (3)

The application of basic biological principles to relevant problems and topics in nutrition and drugs through the consideration of scientific and popular literature. For non-majors. May be taken by majors for free elective credit.

BSC 2035 SEX AND 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. May be taken by majors for free credit.

BSC 2050 ENVIRONMENT (3)

The application of basic scientific principles to global environmental problems; how human activities impact the environment. May be taken by biology majors for elective credit.

BSC 2070 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.

BSC 2330 SAVE THE PLANET: ENVIRONMENTAL SCIENCES (3)

An introduction to environmental sciences using mass communications and independent study. Emphasis will be placed on understanding basic principles of ecology relevant to problems and topics of the earth's environment.

BSC 2932 SELECTED TOPICS IN BIOLOGY (1-4)

May be repeated.

BSC 2933 TOPICS IN HUMAN BIOLOGY (1-4)

Lectures, individual reading, movies, classroom discussions, and evaluation of selected biological topics, reflecting biological principles. (For non-majors.)

BSC 3263C MARINE BIOLOGY (3)

PR: 1 year major's Biology. A survey of the marine environment, the types of organisms found inhabiting a variety of marine habitats, and the adaptations of the organisms to those habitats. Emphasis is placed on shallow water Florida environments.

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. (S/U only.)
- BSC 4910 UNDERGRADUATE RESEARCH** (1-4)
PR: CI and CC. Individual investigation with faculty supervision. (S/U only.)
- BSC 4930 SEMINAR IN BIOLOGY** (1)
Senior or advanced junior standing. May be repeated once. (S/U only.)
- BSC 4933 SELECTED TOPICS IN BIOLOGY** (1-3)
- BSC 5931 SELECTED TOPICS IN BIOLOGY** (1-3)
Each topic is a course in directed study under supervision of faculty member.
- MCB 3000 MAN, MICROBE AND MOLECULE** (3)
PR: BSC 1005. Origin of life, control of disease, environmental quality and the use of microorganisms as tools in searching for molecular explanations of living phenomena. For non-majors. No credit for Biology majors.
- PCB 3023C CELL BIOLOGY** (4)
PR: CHM 3211, CHM 3211L and PCB 3063. A discussion of the concept and significance of the cell to biology; biological molecules and metabolic processes within the cell; cellular energy conversion systems; and control of cellular metabolism. Lec.-lab.
- PCB 3063 GENERAL GENETICS** (3)
PR: 1 year major's Biology. Introduction to genetics including the fundamental concepts of Mendelian, molecular and population genetics. Lec.-dis.
- PCB 4043C PRINCIPLES OF ECOLOGY** (3)
PR: 1 year major's Biology. An introduction to the basic principles and concepts of ecology at the ecosystem, community, and population level of organization. Lec.-dis.
- PCB 4064C EXPERIMENTAL GENETICS** (3)
PR: PCB 3063. Experimental analysis of genetic systems, Lec.-lab.
- PCB 4253 DEVELOPMENTAL BIOLOGY** (3)
PR: PCB 3023C. Topics in modern developmental biology to be covered in lecture and through readings so as to gain a working knowledge and understanding of the cellular and molecular mechanisms of cell differentiation in both plants and animals.
- PCB 4674 ORGANIC EVOLUTION** (3)
PR: PCB 3063. An introduction to modern evolutionary theory. Lecture on population genetics, adaptations, speciation theory, phylogeny, human evolution and related areas. Lec.-dis.
- PCB 5115C CYTOGENETICS** (3)
PR: PCB 3023C. Survey of the structure and function of cytoplasmic and nuclear components of plant and animal cells. Lec.-lab.
- PCB 5235 PRINCIPLES OF IMMUNOLOGY** (3)
PR: PCB 3023C or MCB 3030C. Course will emphasize the biological principles involved in the vertebrate immune response. It will present the homeostatic, defense, and detrimental aspects of the immune system in terms of basic cellular and molecular mechanisms. Techniques will be described to familiarize the student with the types of immunological tools available to the cellular and molecular biologist.
- PCB 5415 BEHAVIORAL ECOLOGY** (3)
PR: ZOO 3203C, PCB 4043C. An emphasis on the evolutionary mechanisms that influence an organisms behavioral responses to environmental events. The theoretical framework is presented and analyzed. Intended for majors.
- PCB 5525 MOLECULAR GENETICS** (3)
PR: PCB 3063. Detailed examination of DNA, RNA and protein synthesis; the effects of mutations on proteins, cellular control; selected aspects of viral, bacterial, and fungal genetics.
- PCB 5615C EVOLUTIONARY GENETICS** (3)
PR: PCB 3063. Examination of factors such as mutation, migration, natural selection, and genetic drift which modify the genetic structure of populations.
- PCB 5835 NEUROPHYSIOLOGY** (3)
PR: PCB 3023C. A comparative analysis of the physiochemical basis and evolution of nervous systems and sensory mechanisms.
- PCB 5845 PRINCIPLES OF NEUROSCIENCE** (3)
PR: PCB 4743C. Study of the mammalian brain's structure and function, with an emphasis on the neuroanatomy, neuropharmacology, and neurophysiology of the human brain.
- Botany**
- BOT 2010C FUNDAMENTALS OF BOTANY** (4)
PR: BSC 2010C. Cell division, genetics, reproduction and development, physiology. Lec.-lab.
- BOT 3373C VASCULAR PLANTS: FORM AND FUNCTION** (4)
PR: BSC 2010C, BSC 2011C. Introduction to the morphology, adaption and evolution of vascular plants, integrating form and function to understand diversity.
- BOT 3823C HORTICULTURAL BOTANY** (2)
PR: Course in botany or biology. Application of principles of botany to give an understanding of basic horticultural operations; seed sowing, dormancy growth requirements, vegetative propagation, pruning, and related problems. Lec.-lab.
- 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. (Summer).
- 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. (Fall semester, even years).
- BOT 4434C MYCOLOGY** (3)
PR: BOT 3373C or MCB 3030C. A survey of the fungi with emphasis on their taxonomy, morphology, physiology and economic importance. Lec.-lab. (Summer).
- BOT 4503 PLANT PHYSIOLOGY** (4)
PR: PCB 3023C. Fundamental activities of plants; absorption, translocation, transpiration, metabolism, growth, and related phenomena. Lec.-lab.
- BOT 4713C PLANT TAXONOMY** (4)
PR: BOT 3373C. Identification and classification of the more interesting vascular plants of Florida; angiosperm evolution; principles of taxonomy. Conducted largely in the field. Lec.-lab.
- BOT 4810C ECONOMIC BOTANY** (3)
PR: BOT 3373C. Study of the uses of plants by man for food, chemicals, fibers, and medicines.
- BOT 4850C MEDICAL BOTANY** (3)
PR: BSC 2010C, BSC 2011C, CHM 2045, CHM 2046, Junior standing. Study of agents that are produced by plants and that are toxic or psychoactive in human beings or are useful as remedies.
- BOT 5185C MARINE BOTANY** (4)
PR: BOT 3373, PCB 4043C. 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.
- Microbiology**
- MCB 3030C GENERAL MICROBIOLOGY** (4)
PR: BSC 2010C and 1 year College Chemistry. Organic chemistry and a course in genetics is recommended. Introduction to the biology of microorganisms: structure, physiology, and ecology of bacteria, algae, viruses, protozoa and lower fungi. The laboratory involves preparation of culture media, staining, pure culture methodology, isolation of microbes from nature, enumeration techniques, resistance to infectious disease. Lec.-lab.
- MCB 4115 DETERMINATIVE BACTERIOLOGY** (5)
PR: MCB 3030C. Survey of bacterial classification; detailed examinations of bacteria important to man in agriculture, in industry and as pathogens. Lec.-lab.
- MCB 4404C MICROBIAL PHYSIOLOGY AND GENETICS** (5)
PR: MCB 3030C, PCB 3023C, PCB 3063, 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.-Lab.
- MCB 4486 EXPERIMENTAL MICROBIOLOGY** (2)
PR: MCB 4502C. This course is designed to develop practical laboratory skills and the concepts of experimental analysis in virology, and microbial genetics for microbiology students.

MCB 4502C 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.

MCB 4652 APPLIED AND ENVIRONMENTAL MICROBIOLOGY (4)

PR: MCB 3030C. A study of the applications of microbiology in industry, agriculture, the biomedical sciences, engineering, and environmental science.

MCB 4934 SEMINAR IN MICROBIOLOGY (1)

PR: Senior or advanced junior standing. May be repeated. (S/U only.)

MCB 5206 PUBLIC HEALTH AND PATHOGENIC MICROBIOLOGY (3)

PR: MCB 3030C. A comprehensive survey of pathogenic microbes responsible for disease in man and other animals and the impact of these infectious agents on the public health. These pathogens will be studied with respect to their morphology, cultivation, mechanisms of pathogenicity, laboratory diagnosis, and epidemiology.

MCB 5606 SYMBIOLOGY (3)

PR: A course in microbiology, cell biology or biochemistry and advanced standing. Consideration of mutualistic and parasitic symbioses between microbes and various animal, plant and microbial hosts from cellular, biochemical, evolutionary and ecological perspectives.

MCB 5815 MEDICAL MYCOLOGY (3)

PR: MCB 3030C. A modern biological survey of the medically important fungi (yeasts and molds) important to microbiologists and environmental scientists.

Zoology**BSC 3092 HUMAN ANATOMY AND PHYSIOLOGY** (5)

PR: BSC 2010C and BSC 2011C. Lectures and discussions on the structure and function of the human body. For non-majors. May be taken by majors for free elective by S/U only.

ENY 4004 INTRODUCTION TO ENTOMOLOGY (3)

PR: ZOO 3203C. An introduction to general aspects of insect morphology, development, and classification. The identification of local forms will be emphasized. Lec.-lab.

ENY 5505 AQUATIC ENTOMOLOGY (3)

PR: ENY 4004. Taxonomy, development, and ecology of aquatic insects with emphasis on local forms. Lec.-lab.

PCB 4723C ANIMAL PHYSIOLOGY (4)

PR: PCB 3023C. Advanced presentation of mechanisms employed by animals to interact with their environment and to maintain their organization. Lec.-lab.

PCB 5306C LIMNOLOGY (4)

PR: CI. An introduction to the physical, chemical, and biological nature of fresh-water environments. Lec.-lab.

ZOO 3203C INVERTEBRATE ZOOLOGY (4)

PR: BSC 2010C, BSC 2011C. An introduction to the major invertebrate groups, with emphasis on local forms. Field work will be required. Lec.-lab.

ZOO 3713C COMPARATIVE VERTEBRATE ANATOMY (4)

PR: BSC 2010C, BSC 2011C. Anatomy of selected vertebrate types emphasizing evolutionary trends.

ZOO 4503 ANIMAL SOCIAL BEHAVIOR (3)

PR: BSC 2010C, BSC 2011C, or senior standing. An introduction to comparative animal behavior (Ethology), with emphasis on communication, social use of space, and behavioral evolution.

ZOO 4603 ANIMAL EMBRYOLOGY (4)

PR: PCB 3023C. Structural and functional events involved in differentiation and morphogenesis. Lec.-lab.

ZOO 4753C HISTOLOGY (4)

PR: BSC 2010C, BSC 2011C, PCB 3023C, PCB 3063. Comparative approach to the study of tissues and the relation of their structure and function. Lec.-lab.

ZOO 5235C PARASITOLOGY (4)

PR: ZOO 3203C. Fundamentals of animal parasitology and parasitism, the biology of selected animal parasites, including those of major importance to man. Lec.-lab.

ZOO 5425C HERPETOLOGY (4)

PR: ZOO 3713C, CI. Major aspects of amphibian and reptilian biology emphasizing fossil history, evolutionary morphology, sensory physiology, life history and reproductive behavior. Lec.-lab. Field trip.

ZOO 5456C ICHTHYOLOGY (4)

PR: Senior or GS; BSC 2010C, BSC 2011C, ZOO 3713C, PCB 4674 is suggested. Evolution, systematics, structure, behavior, physiology, and ecology of fishes.

ZOO 5475C ORNITHOLOGY (4)

PR: Senior standing in Biology. The biology of birds. Field trips emphasize local avifauna. Lec.-lab.

ZOO 5555C MARINE ANIMAL ECOLOGY (4)

PR: PCB 4043C and ZOO 3203C. Investigation of energy flow, biogeochemical cycles, and community structure in marine environments. Lec.-lab.

CHEMISTRY**BCH 3023 INTRODUCTORY BIOCHEMISTRY** (3)

PR: CHM 3200 or CHM 3211 and BSC 2010C. Introduction to the chemistry and intermediary metabolism of biologically important substances. Lec.

BCH 3023L 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, antibodies, and contraction.

BCH 5045 BIOCHEMISTRY CORE COURSE (3)

PR: Either CHM 3211, CHM 3211L, 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 2020 CURRENT ISSUES IN CHEMISTRY (3)

A survey of the important current issues in which chemistry affects our lives; e.g., environment, drugs, cancer, warfare, etc. No credit for chemistry majors.

CHM 2021 CHEMISTRY FOR TODAY (3)

A one semester terminal course designed to survey some of the important concepts and technologies of modern chemistry. No credit for science majors.

CHM 2030 INTRODUCTION TO GENERAL, ORGANIC AND BIOCHEMISTRY I (3)

First half of a two-semester sequence. Fundamental concepts of general, organic, and biological chemistry. No credit for science majors.

CHM 2031 INTRODUCTION TO GENERAL, ORGANIC AND BIOCHEMISTRY II (3)

PR: CHM 2030. Second half of general, biological and organic chemistry. No credit for science majors.

CHM 2040 INTRODUCTORY GENERAL CHEMISTRY (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.

CHM 2041 GENERAL CHEMISTRY I (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 (3)

PR: CHM 2041 or CHM 2045L or equivalent. Continuation of General Chemistry. Lec.-dis.

CHM 2046L GENERAL CHEMISTRY II LABORATORY (1)

PR: CHM 2045L. Laboratory portion of General Chemistry II. Continuation of chemistry laboratory.

CHM 2932 SELECTED TOPICS IN CHEMISTRY (3)

Topics of interest to students relating to chemistry and other sciences.

- CHM 3120C ELEMENTARY ANALYTICAL CHEMISTRY** (4)
PR: CHM 2046, CHM 2046L. Fundamentals of gravimetric, volumetric, spectrophotometric analysis. Lec.-lab.
- CHM 3200 ORGANIC CHEMISTRY** (4)
PR: CHM 2046 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 3210 ORGANIC CHEMISTRY I** (4)
PR: CHM 2046, CHM 2046L. Fundamental principles of organic chemistry. Lecture.
- CHM 3210L ORGANIC CHEMISTRY LABORATORY I** (1)
CR: CHM 3200 or CHM 3210. Laboratory portion of Organic Chemistry I. Introduction of organic laboratory principles and techniques.
- CHM 3211 ORGANIC CHEMISTRY II** (4)
PR: CHM 3210 or equivalent. Continuation of organic chemistry. Lecture.
- CHM 3211L ORGANIC CHEMISTRY LABORATORY II** (1)
PR: CHM 3210L, CR: CHM 3211. Continuation of organic chemistry laboratory.
- CHM 3400 ELEMENTARY PHYSICAL CHEMISTRY I** (3)
PR: CHM 2046, CHM 2046L, MAC 3281 or MAC 3311, PHY 3054, PHY 3054L. Introduction to thermodynamics. Properties of solutions with emphasis on biological applications.
- CHM 3401 ELEMENTARY 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 physical chemistry laboratory with emphasis on modern techniques and instruments. Lab.
- CHM 3610C INTERMEDIATE INORGANIC CHEMISTRY** (4)
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. Lec.-lab.
- 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** (3)
PR: One year of college chemistry; or senior standing, and CI. A study in depth of the historical and philosophical aspects of outstanding chemical discoveries and theories. Lec.-dis.
- CHM 4130C METHODS OF CHEMICAL INVESTIGATION I** (4)
PR: CHM 3120C, CHM 3211, CHM 3211L, 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 II** (4)
PR: CHM 4130C. Continuation of CHM 4130C.
- CHM 4300 BIOMOLECULES I** (3)
PR: CHM 3211. 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 3282 or MAC 3312, and PHY 3054 or PHY 3049. Thermodynamics, the states of matter, solutions. Lec.
- CHM 4411 PHYSICAL CHEMISTRY II** (3)
PR: CHM 3120C, and MAC 3282 or MAC 3312, and PHY 3054 or PHY 3049. Introduction to quantum mechanics and molecular spectroscopy. Lec.
- CHM 4412 PHYSICAL CHEMISTRY III** (3)
PR: CHM 4410. Electrochemistry, kinetic theory of gases, chemical kinetics, surface and nuclear chemistry. Lec.
- 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.
- CHM 4970 UNDERGRADUATE RESEARCH** (1-3)
PR: CI. (S/U only)
- CHM 5225 INTERMEDIATE ORGANIC CHEMISTRY** (3)
PR: CHM 3211, CHM 3211L, 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 3211, CHM 3211L, 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. Lec.
- 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 4200 INDUSTRIAL CHEMISTRY** (3)
PR: CHM 3211 or CI. The general composition and properties of products in the petroleum, rubber, plastics, fiber, and detergent industries will be examined. Quality requirements imposed by product end use and new product development will be emphasized.
- 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 experience in some of the most important clinical determinations. CHS 4300 must be taken concurrently. Lec.-lab.
- CHS 4302 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.
- CLASSICS**
- CLA 4103 GREEK CIVILIZATION - 6A** (3)
Study of Greek Civilization from its beginning to the Roman period, with emphasis on social customs, political institutions, and daily life.
- CLA 4123 ROMAN CIVILIZATION - 6A** (3)
Study of Ancient Roman Civilization with emphasis on social customs, political institutions, and daily life.
- Courses in Translation**
- CLT 3040 CLASSICAL WORD ROOTS IN SCIENCE** (3)
A course in the Greek and Latin word elements used in science and technology.
- CLT 3101 GREEK LITERATURE IN TRANSLATION - 6A** (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 (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 (3)

Study of Greek and Roman myths embodied in classical literature and of their impact on Western civilization. All readings are in English.

Greek

GRE 1120 BEGINNING CLASSICAL GREEK I (4)

An introductory course in classical Greek grammar with appropriate readings.

GRE 1121 BEGINNING CLASSICAL GREEK II (4)

PR: GRE 1120 or equivalent. An introductory course in classical Greek grammar with appropriate readings.

GRW 4905 DIRECTED READING (1-4)

Departmental approval required.

GRW 5905 DIRECTED READING (1-4)

Departmental approval required.

GRW 5934 SELECTED TOPICS (4)

Study of an author, movement or theme. May be repeated up to 12 credit hours.

Latin

LAT 1120 BEGINNING LATIN I (4)

An introductory course in Latin grammar with appropriate readings.

LAT 1121 BEGINNING LATIN II (4)

PR: LAT 1120 or equivalent. An introductory course in Latin grammar with appropriate readings.

LNW 4363 MARTIAL (4)

PR: LAT 1121 or equivalent. Readings in the Epigrams of Martial. Study of the tradition, techniques, and artistry of the Roman epigram. Available to majors and non-majors.

LNW 4381 LIVY (4)

PR: Basic knowledge of Latin. Readings in the ideas and artistry of this Roman historian.

LNW 4500 CICERO AND ROMAN PHILOSOPHY (4)

PR: Basic knowledge of Latin. Readings in the philosophic writings of Cicero, together with a consideration of eclectic thought.

LNW 4501 SENECA AND ROMAN PHILOSOPHY (4)

PR: Basic knowledge of Latin. Readings in the philosophic writings of Lucius Annaeus Seneca, together with an examination of Stoic, Epicurean, and Eclectic thought.

LNW 4634 CATULLUS (4)

PR: Basic knowledge of Latin. Readings in Catullus. Study of techniques and tradition in Roman lyric poetry.

LNW 4644 CICERO (4)

PR: Basic knowledge of Latin. Readings in the epistles of Cicero.

LNW 4654 HORACE (4)

PR: Basic knowledge of Latin. Readings in the Odes and Epodes of Horace; study of the Ode's tradition.

LNW 4660 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.

LNW 4670 OVID (4)

PR: LAT 1121 or equivalent. Readings in Ovid's *Metamorphoses*. Study of Ovid's technique, style, and artistry.

LNW 4900 DIRECTED READING (1-4)

Departmental approval required.

LNW 4930 SELECTED TOPICS (4)

Study of an author, movement, or theme.

LNW 5900 DIRECTED READING (1-4)

Departmental approval required. (S/U only.)

LNW 5934 SELECTED TOPICS (4)

Study of an author, movement or theme. May be repeated up to 12 credit hours.

COMMUNICATION

COM 3003 DIMENSIONS OF COMMUNICATION (3)

PR: SPC 2023. An introductory survey of the various perspectives for the study of human communication. An exploration of the assumptions, constructs, and explanatory paradigms associated with the study of communication in its symbolic, aesthetic, historical, critical, and pragmatic dimensions.

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 hearing.

COM 3120 INTRODUCTION TO COMMUNICATION THEORY IN ORGANIZATIONS (3)

PR: majors, COM 3003 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)

A study of 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 mass lecture.**

COM 3122L INTERVIEW COMMUNICATION LAB (0)

Interview laboratory for practice and individual consultation. Students must take this course in conjunction with the mass lecture COM 3122. Open to majors and non-majors. Not repeatable.

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.

COM 5930 TOPICS IN COMMUNICATION STUDIES (3)

Topical issues in communication. Rpt. up to 12 hours as topics vary.

ORI 3000 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 3000 or CI. The study, rehearsal, and performance of literature for Readers Theatre and Chamber Theatre productions. May be repeated (maximum total four hours).

ORI 4120 PERFORMANCE OF POETRY (3)

PR: ORI 3000 or CI. Critical appreciation of lyric and narrative poetry and communication of that appreciation to audience. Study of poetic theory and prosodic techniques.

ORI 4140 PERFORMANCE OF DRAMA (3)

PR: ORI 3000 or CI. Critical appreciation and oral interpretation of special textual materials which are inherently dramatic in nature and poetry, narrative prose, drama, biography, and history.

ORI 4310 GROUP PERFORMANCE OF LITERATURE (3)

PR: ORI 3000 or CI. Designed to introduce the student to and give experience in various forms of group approaches to performance.

ORI 5930 TOPICS IN PERFORMANCE GENRES (3)

Variable topics course. Rpt. up to 12 hours as topics change.

SPC 2023 FUNDAMENTALS OF HUMAN COMMUNICATION (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 2050 SPEECH IMPROVEMENT AND PHONETICS (3)

Designed to improve vocal quality and expressiveness, articulation, and pronunciation, and to give instruction and practice in using the International Phonetic Alphabet for speech improvement.

SPC 3059 SPEECH IMPROVEMENT AND PHONETICS II (3)

PR: SPC 2050 or CI. A continuation of SPC 2050. Emphasis will

be upon applying listening and transcription skills to the improvement of vocal quality and effective expressions.

SPC 3210 COMMUNICATION THEORY (3)

PR: Junior standing or CI. The study of source, message, and receiver variables in human communication; communication settings; descriptive and predictive models of communication; communication as a process.

SPC 3230 RHETORICAL THEORY (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 (3)

PR: Junior standing or CI. A study of interpersonal communication in informally structured settings with emphasis on the understanding, description, and analysis of human communication.

SPC 3410 PARLIAMENTARY PROCEDURES (2)

Principles of parliamentary procedure and practice in conducting and participating in meetings governed by parliamentary rules.

SPC 3441 GROUP COMMUNICATION (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 2023 or CI. Study and application of communication strategies in speaking extemporaneously and from manuscript. The course includes study of selected public addresses as aids to increased understanding of speaking skills.

SPC 3633 RHETORIC OF CONFRONTATION (3)

PR: Junior standing or CI. The study of rhetorical strategies and tactics of agitation and control in confrontation situations.

SPC 3653 POPULAR FORMS OF PUBLIC COMMUNICATION (3)

PR: Junior standing or CI. Analysis of public communication with emphasis on various presentational forms.

SPC 3681 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 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.

SPC 4680 HISTORY AND CRITICISM OF PUBLIC ADDRESS (3)

PR: SPC 3601 or CI. The principles of rhetorical criticism applied to selected great speeches of Western Civilization.

SPC 4683 RHETORICAL ANALYSIS OF MASS MEDIA (3)

PR: SPC 3230 or SPC 3681; Open to non-majors with CI. An introduction to the criticism of media forms and effects. Contemporary perspectives of the aesthetic and persuasive dimensions of mass media are examined. Students will engage in critical study of media artifacts.

SPC 4900 DIRECTED READINGS (1-3)

PR: Senior standing, minimum GPA 2.5, 15 hours of core requirements and 9 elective hours completed, and CI. Maximum 6 hours.

SPC 4905 UNDERGRADUATE RESEARCH (1-3)

PR: Senior standing, minimum GPA 2.5, 15 hours of core requirements and 9 elective hours completed, and CI. Maximum 6 hours. Individual investigations with faculty supervision.

SPC 4930 SELECTED TOPICS (1-3)

PR: Senior standing, minimum GPA 2.5, 15 hours of core requirements and 9 elective hours completed, and CI. May be repeated.

SPC 4932 SENIOR SEMINAR IN COMMUNICATION (3)

PR: Senior standing, minimum GPA 3.0, 15 hours of core requirements and 9 elective hours completed, and CI. Communication major. Exploration of selected topics of current significance to the several areas of communication through group discussion and research.

SPC 5238 TOPICS IN RHETORICAL ANALYSIS (3)

Introduces a variety of critical perspectives applied to rhetoric in

specialized contexts. Topics vary depending upon interest of students and faculty. Rpt. up to 12 hours.

SPC 5912 RESEARCH (1-4)

PR: Senior or graduate standing and CI.

SPC 5930 TOPICS IN DISCOURSE (3)

Variable topics course. Rpt. up to 12 hours.

COMMUNICATION SCIENCES AND DISORDERS

SPA 3002 INTRODUCTION TO DISORDERS OF SPEECH AND LANGUAGE (3)

RR: Junior standing and CI. The scope of speech-language pathology as a profession and a field of study. An introduction to speech and language disorders, etiologies, major treatment approaches, and research findings.

SPA 3011 INTRODUCTION TO SPEECH SCIENCE (3)

PR: SPA 3101 and SPA 3112. 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 3030 INTRODUCTION TO HEARING SCIENCE (3)

PR: Junior standing and CI. Introduction to the field of hearing including: physics of sound, auditory anatomy and physiology, and psychophysics of hearing.

SPA 3101 ANATOMY AND PHYSIOLOGY OF THE SPEECH AND HEARING MECHANISM (3)

PR: Junior standing and CI. The neurological and anatomical basis of communication disorders. Comparisons of normal and pathological organic structures and their functional dynamics.

SPA 3112 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 3310 INTRODUCTION TO DISORDERS OF HEARING (3)

PR: SPA 3030 and SPA 3101. The etiology, pathology, and management of disorders of the outer ear, middle ear, inner ear, retrocochlear, and central auditory systems.

SPA 3380 BASIC AMERICAN SIGN LANGUAGE (3)

PR: CI. Introduction to American Sign Language (ASL) as used in the deaf community. General discussion of ASL structure and introduction to various manual communication systems and philosophies. Emphasis on building a basic vocabulary. One hour laboratory course (SPA 3380L) to be taken concurrently. Open to all majors.

SPA 3380L BASIC AMERICAN SIGN LANGUAGE LABORATORY (1)

PR: CI. A laboratory designed to offer additional practice in sign language by means of videotapes. Concurrent enrollment at each level of sign language is required. There are no prerequisites. May be repeated up to 2 credit hours.

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 4930 (Lang. Dev.) and SPA 3310. Observation and participation in speech-language pathology and audiology practicum in the University clinical laboratory.

SPA 4201 PHONOLOGICAL DEVELOPMENT AND DISORDERS (3)

PR: SPA 3011. An examination of normal and deviant articulatory acquisition and behavior. Presentation of major theoretical orientations and the therapeutic principles based upon them.

SPA 4210 VOCAL DISORDERS (3)

PR: SPA 3011 and SPA 3310. A comprehensive study of the medical and physical aspects of voice disorders. Primary emphasis is on therapeutic management.

SPA 4222 FLUENCY DISORDERS (3)

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.

SPA 4331 FUNDAMENTALS OF FINGERSPELLING (2)

PR: CI. A concentrated study of technique in fingerspelling emphasizing clarity and rhythm in expression as well as receptive understanding.

- SPA 4332 STRUCTURE OF SIGN LANGUAGE** (3)
PR: CI. Semiotic and linguistic consideration of American Sign Language (ASL). Includes aspects of phonology, syntax, semantics, and discourse in ASL.
- SPA 4335 SIGN LANGUAGE CODES** (3)
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.
- SPA 4363 NATURE AND NEEDS OF HEARING IMPAIRED** (3)
A study of the effects of auditory disorders upon the organization and expression of behavioral patterns as they relate to motivation, adjustment and personality.
- SPA 4382 INTERMEDIATE AMERICAN SIGN LANGUAGE** (3)
PR: SPA 3380, SPA 3380L, 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 (SPA 4382L) to be taken concurrently.
- SPA 4382L INTERMEDIATE AMERICAN SIGN LANGUAGE LABORATORY** (1)
PR: SPA 3380 and SPA 3380L. A laboratory designed to offer additional practice in sign language by means of videotapes. Concurrent enrollment in SPA 4382 of sign language. May be repeated up to 2 credit hours.
- SPA 4383 ADVANCED AMERICAN SIGN LANGUAGE** (3)
PR: SPA 4382, SPA 4382L, 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. A one hour laboratory course (SPA 4383L) is to be taken concurrently. Open to all majors.
- SPA 4383L ADVANCED AMERICAN SIGN LANGUAGE LABORATORY** (1)
PR: CI. An advanced laboratory course designed to offer students added practice with the material presented in the ASL coursework through video and audio tapes. To be taken concurrently with Advanced American Sign Language (SPA 4383).
- SPA 4562 COUNSELING OF COMMUNICATIVELY HANDICAPPED AND FAMILY** (3)
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 application of therapeutic methodologies to reduction of communication handicaps.
- SPA 4930 SELECTED TOPICS** (3)
PR: CI. Intensive study of topics in Speech-Language Pathology, Audiology, and/or Aural Rehabilitation conducted under the supervision of a faculty member. May be repeated for a total of 9 credit hours.
- SPA 5132 AUDIOLOGY INSTRUMENTATION** (2)
PR: CI. Calibration, usage and specific applications of specialized instruments available in dealing with the identification and measurement of hearing disorders.
- SPA 5150 ADVANCED SPEECH SCIENCE** (3)
PR: SPA 3011 or equivalent. Advanced study of the acoustics, production and perception of normal and disordered speech.
- SPA 5150L SPEECH SCIENCE INSTRUMENTATION** (2)
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.
- SPA 5303 ADVANCED HEARING SCIENCE** (3)
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.
- SPA 5312 PERIPHERAL AND CENTRAL AUDITORY TESTS** (4)
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.
- SPA 5328 AURAL REHABILITATION: ADULTS(3)**
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.

- SPA 5403 COMMUNICATION DISORDERS: LANGUAGE** (3)
PR: CI. Examination of research and clinical literature presenting major theoretical orientations pertaining to the etiology, evaluations, and treatment of those factors that hinder or interrupt normal language acquisition or function.
- SPA 5408 LANGUAGE LEARNING IN THE SCHOOL-AGE YEARS** (3)
PR: CI. Participation in speech-language pathology and audiology practicum in the University Communication Disorders Center and selected field settings.
- 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.

CRIMINOLOGY

- CCJ 3003 CRIME AND JUSTICE IN AMERICA** (4)
This course is a non-technical survey of the nature of crime in the United States and the ways in which 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 3020 SURVEY OF THE CRIMINAL JUSTICE SYSTEM** (3)
PR: PSY 2012, SOC 2000, or equivalent, or CI. An introduction to the structure and operation of law enforcement, prosecution, the courts, and corrections. Also includes brief coverage of major reported crimes.
- CCJ 3210 SUBSTANTIVE CRIMINAL LAW** (3)
PR: CCJ 3020, POS 2041 or CI. Examines the historical basis of the American criminal law system, the substantive elements of the crime, and court procedures.
- CCJ 3610 THEORIES OF CRIMINAL BEHAVIOR** (3)
PR: CCJ 3020. Provides a basic understanding of the complex factors related to crime, with concentration on principal theoretical approaches to the explanation of crime.
- 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 offense, 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: Junior standing and CCJ 3020 or CI. Introduces the student to some of the fundamentals of knowledge-generating processes in criminal justice.
- CCJ 4110 AMERICAN LAW ENFORCEMENT SYSTEMS** (3)
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 4230 CRIMINAL RIGHTS AND PROCEDURES** (3)
Emphasizes the Constitutional issues and rules that are applied and enforced by the courts while processing criminal cases.
- CCJ 4331 ALTERNATIVES TO INCARCERATION** (3)
PR: Junior standing plus CCJ 4360 or CI. This course explores a variety of alternatives to imprisoning the offender, including probation, parole, diversion, and other community-based intervention and treatment approaches.
- CCJ 4340 INTERVENTION TECHNIQUES AND STRATEGIES** (3)
PR: Senior standing or CI. Introduces the student to theories and methods underlying treatment modalities currently employed in corrections.
- CCJ 4360 AMERICAN CORRECTIONAL SYSTEMS** (3)
PR: Junior standing plus 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 4450 CRIMINAL JUSTICE ADMINISTRATION** (3)
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 3020 or CI. Provides coverage of the juvenile and family courts, their clientele, and the complex of human services agencies and facilities that contribute to efforts at juvenile correctional intervention.

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 4700 STATISTICAL RESEARCH METHODS IN CRIMINAL JUSTICE II (3)

PR: Junior standing or CI. Beginning with the scientific method, the tools commonly used to analyze criminal justice data will be emphasized. Recommended for students who intend to continue their education beyond the B.A. Required of students attending the MA program in CCJ at USF. This course may not be taken for credit if the student has already successfully completed STA 3122 or GEB 3121.

***CCJ 4900 DIRECTED READINGS (1-3)**

PR: CI. This course is specifically designed to enable advanced students the opportunity to do in-depth independent work in the area of criminal justice. Each student will be under the close supervision of a faculty member of the program. No more than five hours of CCJ 4900, CCJ 4910 or any combination of the two will be accepted toward the minimum number of hours required for the major.

***CCJ 4910 DIRECTED RESEARCH (1-3)**

PR: CI. This course is designed to provide students with a research experience in which they will work closely with faculty on the development and implementation of research projects in the area of criminal justice. No more than five hours of CCJ 4910, CCJ 4900 or any combination of the two will be accepted toward the minimum number of hours of the major.

*NOTE: CCJ 4900 & CCJ 4910. (a) Students wishing to enroll must make arrangements with a faculty member during the semester prior to actually taking the course, (b) a minimum of four (4) CCJ courses must have been completed satisfactorily prior to enrollment, (c) first consideration will be given to Criminology majors, and (d) individual faculty members may add additional requirements at their discretion.

CCJ 4934 SEMINAR IN CRIMINOLOGY (3)

PR: Senior standing and CI. These variable topic seminars are used for the indepth study and discussion of the relationships among culture, gender, ethics, age, society, and criminal behavior. Such examinations may include the options the criminal justice does (or does not) have to deal with these interactions, and the ethics and efficacy of the system's response.

CCJ 4940 INTERNSHIP FOR CRIMINAL JUSTICE MAJORS (3)

PR: Senior standing. The internship will consist of placement with one or more of the agencies comprising the criminal justice system. This course will enable the students to gain meaningful field experience related to their future careers. The three-hour block of credit will require a minimum of ten hours of work per week within the host agencies in addition to any written work or reading assignments. See requirements for the B.A. degree in Criminology for the number of hours required. (S/U only.)

CI 4100 CRIMINAL INVESTIGATION (3)

Covers the major components of criminal investigation, with special attention to the scientific aspects of criminal investigation and the management of major cases.

CI 4820 PRIVATE SECURITY SYSTEMS (3)

PR: Junior standing plus CCJ 4110 or CI. Examines some of the principal methods and techniques currently used to reduce or prevent losses due to theft and casualty.

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 3271 BLACK LITERATURE (3)

A study of black 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 4101 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 4123 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 4300 SELECTED AMERICAN AUTHORS (3)

The study of two or three related major authors in American literature, focusing on several major figures; 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 repeated 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 direction for student writing and which also attempts to encourage 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 and direction for the student's writing and which also attempts to encourage the development of critical skills.

CRW 4120 FICTION III (3)

PR: CRW 3111, CRW 3112, CRW 3121. An advanced fiction workshop wherein 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 wherein students are expected to create works exhibiting a firm knowledge of the principles explored in the preceding courses. May be taken twice for credit.
- 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 (3,3)**
Instruction and practice in the skills of writing and reading. Courses must be taken in numerical sequence.
- ENC 1121 FRESHMAN ENGLISH: HONORS (3)**
Honors Section of ENC 1101. Reserved for students in the University's Honors Program.
- ENC 1122 FRESHMAN ENGLISH II: HONORS (3)**
PR: ENC 1121. Honors Section of ENC 1102. Reserved for students in the University's Honors Program.
- ENC 3210 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 3210, or ENC 3310, or GEB 3211, or CI. Advanced Technical Writing is a course designed to develop writing skills of a high 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 3210, 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.
- ENG 3105 CULTURAL STUDIES AND THE POPULAR ARTS (3)**
A study of twentieth century culture as it is represented in film, fiction, and other cultural artifacts.
- ENG 3114 MODERN DRAMA (3)**
A study of such modern and contemporary dramatists as Ibsen, Strindberg, Chekhov, Pirandello, Shaw, O'Neill, Pinter, Stoppard, Brecht, Beckett, and Ionesco.
- 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.
- 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.
- ENG 4935 HONORS SEMINAR I (3)**
PR: Admission to English Honors Program (should be taken concurrently with ENG 4936). A study of two or three major American or British writers. Students will be expected to participate in class discussion, make formal presentations, and complete a major research project.
- ENG 4936 HONORS SEMINAR II (3)**
PR: Admission to English Honors Program (should be taken concurrently with ENG 4935). A study of critical theory from Aristotle to the present. Students will be expected to participate in class discussion, make formal presentations, and complete a major research project.
- ENG 4970 HONORS THESIS SEMINAR (3)**
PR: ENG 4935 and ENG 4936. For students writing honors theses. Class time will be devoted to exchange of research findings, instructor and peer critique of method, structure, and rhetoric of individual projects.
- ENG 5067 HISTORY OF THE ENGLISH LANGUAGE (3)**
PR: Senior or Graduate standing. The course will trace the history of the English Language from its beginnings in Continental Europe, through the Anglo-Saxon and Middle English periods, the Renaissance, and the Nineteenth Century, to the present day with emphasis on both the structural development of the language and the political, social, and intellectual forces that determined this development.
- 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 3250 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 3331 EARLY SHAKESPEARE (3)**
A study of from six to eight of Shakespeare's 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, Smollett, Sterne, Austen, Scott, Dickens, Eliot, and Hardy, among others.
- ENL 4132 BRITISH NOVEL: CONRAD TO THE PRESENT (3)**
A critical study of British fiction from 1900 to the present, with emphasis on such writers as Conrad, Lawrence, Joyce, Woolf, Huxley, Orwell, Burgess, Murdoch, Golding, and others.
- ENL 4171 HISTORY OF BRITISH DRAMA TO 1912 (3)**
A study of the history of British Drama from its liturgical origins to the beginning of the twentieth century, exclusive of Shakespeare. Included are the mystery and morality plays, and representative works by Marlowe, Jonson, Middleton, Dryden, Congreve, Sheridan, and Wilde, and others.
- ENL 4303 SELECTED AUTHORS (3)**
The study of two or three related major figures in English, American, or World Literature. The course may include such writers as Fielding and Austen, Keats and Yeats, Joyce and Flaubert, etc. Specific topics will vary. May be taken twice for credit with different topics.
- ENL 4311 CHAUCER (3)**
An intensive study of *The Canterbury Tales* and major critical concerns.
- ENL 4338 ADVANCED STUDIES IN SHAKESPEARE (3)**
PR: ENL 3331 or ENL 3332, or CI. Intensive study of selected plays of Shakespeare, with special attention to significant critical issues and to the Elizabethan and Jacobean cultural setting.
- ENL 4341 MILTON (3)**
Study of the poetry and major prose of John Milton, with special emphasis on *Paradise Lost*.

- LIN 2670 ENGLISH GRAMMAR AND USAGE (3)**
A course in the basics of traditional English grammar designed as a complement to our composition and creative writing courses, as a review for those students who will take preprofessional exams, and as a basic course for students interested in improving their knowledge of English.
- LIN 4671 TRADITIONAL ENGLISH GRAMMAR (3)**
A course primarily using the sentence diagram to present a detailed analysis of the parts of speech, verb tenses, sentence functions, and other basic grammatical classifications of traditional English grammar.
- LIN 4680 STRUCTURE OF AMERICAN ENGLISH (3)**
An introductory survey of traditional, structural, and generative transformational grammars and their techniques for the analysis and description of linguistic structure in general, and contemporary American English, in particular.
- LIT 2010 INTRODUCTION TO FICTION -6A (3)**
A study of the short story and novel as literary forms; not restricted to any historical period. Will not be counted toward the English major.
- LIT 2021 CURRENT SHORT FICTION (3)**
Traditional and experimental short stories of this generation: such writers as Updike, Malamud, O'Connor, Roth, Barth, Ionesco, and Barthelme. Will not be counted toward the English major.
- LIT 2030 INTRODUCTION TO POETRY -6A (3)**
A study of the poem as literary form; not restricted to any historical period. Will not be counted toward the English major.
- LIT 2040 INTRODUCTION TO DRAMA -6A (3)**
A study of the major forms of drama as literature; not restricted to any historical period. Will not be counted toward the English major.
- LIT 2091 CURRENT NOVELS (3)**
A study of major British and American novels since WW II; attention will be given to the cultural influences and recent literary trends. Will not be counted toward the English major.
- LIT 2092 DRAMA: TEXTS AND FILMS (3)**
A study of the great works of drama, with emphasis on recent forms and themes. Films will demonstrate the possibilities of visualization. Will not be counted toward the English major.
- LIT 2931 SELECTED TOPICS IN ENGLISH STUDIES (1-4)**
Varying from semester to semester, the course examines in depth a predominant literary theme or the work of a select group of writers.
- LIT 3000 INTRODUCTION TO LITERATURE -6A (3)**
The nature and significance of literature in its various forms: fiction, drama, poetry; emphasis on the techniques of reading literature for informed enjoyment. Will not be counted toward the English major.
- LIT 3022 MODERN SHORT NOVEL (3)**
A study of the novella from the nineteenth century to the present. Writers include: James, Dostoevsky, Camus, Styron, Nabokov, Gardner, Roth, Vonnegut, among others.
- LIT 3073 CONTEMPORARY LITERATURE (3)**
An introduction to the fiction, poetry, and drama written since 1945—American, British, Continental. Focus may be on one, two, or all three genres or on works from any combination of nationalities.
- LIT 3101 LITERATURE OF THE WESTERN WORLD THROUGH THE RENAISSANCE -6A (3)**
A study in English of the great works of Western Literature from its beginnings through the Renaissance, including the Bible, Homer, Sophocles, Plato, Euripides, Virgil, Cicero, Dante, Petrarch, Machiavelli, and Rabelais, among others.
- LIT 3102 LITERATURE OF THE WESTERN WORLD SINCE THE RENAISSANCE -6A (3)**
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, Dostoevsky, Chekhov, Ibsen, Kafka, Gide, Sartre, and Camus, among others.
- LIT 3144 MODERN EUROPEAN NOVEL (3)**
A study of the Modern European novel in translation as it developed from the nineteenth century to the present, including such writers as Dostoevsky, Flaubert, Kafka, Hesse, Camus, and Solzhenitsyn.
- LIT 3304 TWENTIETH-CENTURY BEST SELLERS (3)**
A study of representative best-selling novels in twentieth century America; including such popular works as *Peyton Place*, *Lady Chatterly's Lover*, *Exodus*, and *Catcher in the Rye*, which have sold in excess of 5,000,000 copies and have served to portray our changing society and to reveal our changing literary taste.
- LIT 3310 FANTASY AND SCIENCE FICTION (3)**
A survey of fantasy and science fiction in England and America from Mary Shelley to the present; includes such writers as Poe, Melville, Ray Bradbury, Arthur C. Clarke, among others.
- LIT 3374 THE BIBLE AS LITERATURE (3)**
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 3383 THE IMAGE OF WOMEN IN LITERATURE (3)**
A survey of feminism, antifeminism, sexual identity, the feminine mystique, stereotyped and liberated female images from Sappho to the present, with special emphasis on women writers and on the emergence of the women's movement. (Also offered under Women's Studies.)
- LIT 3410 RELIGIOUS AND EXISTENTIAL THEMES (3)**
Theological and philosophical ideas, allusions, and symbols in the writings of Dostoevsky, Nietzsche, Mann, Joyce, Eliot, Camus, Sartre, among others.
- LIT 3451 LITERATURE AND THE OCCULT (3)**
An introduction to the occult tradition as a major ingredient in English, Continental, and American literature; analysis of the origins, classifications, and areas of the various magic arts from classical times through the present.
- LIT 3716 SURVEY OF POETRY (3)**
A chronological sampling of the major poems written in English from the Middle Ages to the present. Recommended as the first course in the poetry option.
- LIT 4011 THEORY OF FICTION (3)**
Intensive study of the genres and varieties of fiction to ascertain the theoretical and technical problems involved in the work of fiction.
- LIT 4930 SELECTED TOPICS IN ENGLISH STUDIES (1-4)**
The content of the course will be governed by student demand and instructor interest. It will examine in depth a recurring literary theme or the work of a small group of writers. Special courses in writing may also be offered under this title. May be repeated with different topics.
- REA 1105 ADVANCED READING (3)**
Designed to help students develop maximum reading efficiency. The course includes extensive instruction and laboratory practice in the improvement of adequate rates of reading, vocabulary, and comprehensive skills. An independent study approach is also available for students who prefer to assume responsibility for their own progress.
- REA 1605 LEARNING STRATEGIES WITHIN ACADEMIC DISCIPLINES (2)**
To provide within any academic discipline the necessary learning strategies needed for success related to academic coursework. Practice of learning strategies will be within the framework of the student's coursework, providing direct transfer to academic area material.
- REA 2405 SPEED READING DEVELOPMENT (2)**
A course designed to develop speed reading techniques on various levels of difficulty. Emphasis is placed on comprehension via numerous practice drills. Will not be counted toward the English major. (S/U only.)
- REA 2505 VOCABULARY (3)**
A practical course in rapid vocabulary improvement for students in all areas. Stress is on words in context. Will not be counted toward the English major.
- WST 4262 LITERATURE BY AMERICAN WOMEN OF COLOR (3)**
An introduction to contemporary women writers of color in the U.S.: Native Americans, African Americans, Asian Americans, and Chicanas/U.S. Latinas. Readings will include literature and contextual articles on historical and cultural issues. (May also be taken for credit in Women's Studies.)

WST 4263 THIRD WORLD WOMEN WRITERS (3)

Introduces the literature of women from various *anglophone* countries in Africa, the Caribbean, and South Asia; some U.S. writers will be included to represent a third world diasporic consciousness. (May also be taken for credit in Women's Studies.)

GEOGRAPHY**GEA 3000 WORLD REGIONAL GEOGRAPHY (4)**

Comparative and analytical analysis of representative regions of the world with emphasis on cultural, political, economic, and physical diversity.

GEA 3009 GENERAL GEOGRAPHY (4)

Selected topics in regional and topical geography offered as survey courses. Open to all students.

GEA 3194 REGIONAL GEOGRAPHY (4)

Variable title course to systematically study and compare special regions identified by the instructor.

GEA 3202 GEOGRAPHY OF ANGLO-AMERICA (4)**GEA 3300 GEOGRAPHY OF MIDDLE AMERICA (4)****GEA 3360 GEOGRAPHY OF GULF OF MEXICO (4)****GEA 3400 GEOGRAPHY OF LATIN AMERICA (4)****GEA 3500 GEOGRAPHY OF EUROPE (4)****GEA 3554 GEOGRAPHY OF THE USSR (4)****GEA 3600 GEOGRAPHY OF AFRICA (4)****GEA 3703 GEOGRAPHY OF ASIA (4)****GEO 1930 GEOGRAPHY OF CURRENT EVENTS (4)**

Application of basic geographic principles of the analysis of contemporary events in various parts of the world.

GEO 2041C MAP INTERPRETATION (4)

Analysis and synthesis of various types of maps and map projections.

GEO 2371 INTRODUCTION TO EARTH SYSTEMS SCIENCE (4)

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)

Principles and concepts of the discipline; maps, earth-sun relationships, weather, climate, soil, water, and landforms.

GEO 3402 HUMAN GEOGRAPHY (4)

Systematic treatment of man's activities on earth; population, settlement, agriculture, industry, trade, transportation, and political aspects are among those considered.

GEO 3602 URBAN GEOGRAPHY (4)

PR: GEO 3402 or CI. Spatial analysis of urban areas; growth, location, spacing, and size. Development, site, situation, internal structure, and hinterland are considered.

GEO 3901 ELEMENTS OF GEOGRAPHY (1)

Independent study; various topics in physical and cultural geography. (S/U only.)

GEO 3931C SELECTED TOPICS (4)**GEO 4100C CARTOGRAPHY (4)**

PR: GEO 3013. Map compilation and graphic presentation.

GEO 4114C GEOGRAPHIC TECHNIQUES AND METHODOLOGY (4)

PR: 12 credit hours in Geography or CI. Selected topics in various geographic techniques and methodologies and their application.

GEO 4124C AIR PHOTO INTERPRETATION (4)

PR: GEO 3013 or CI. Detection, identification, and analysis of objects on the earth's surface. Techniques other than photographic are also considered.

GEO 4164C QUANTITATIVE METHODS (4)

PR: 12 credit hours in Geography or CI. Statistical analysis in geographic research.

GEO 4200C PHYSICAL GEOGRAPHY (4)

PR: GEO 3013 or CI. Intensive study of a topic selected from physical geography.

GEO 4210 PROCESS GEOMORPHOLOGY (4)

PR: GEO 3013 or GLY 2010 or CI. Origin, evolution, and distribution of the landforms of North America.

GEO 4280C HYDROLOGY (4)

PR: GEO 3013 or CI. Hydrologic cycle; precipitation, evapotranspiration, water budget, streamflow, and probability analysis.

GEO 4340 HUMAN RESPONSE TO NATURAL HAZARDS (4)

The impact of hurricanes, tornadoes, earthquakes, sink holes, tidal waves, fire, freezes, and droughts on people; attempts to

overcome or avoid these hazards.

GEO 4372 GLOBAL CONSERVATION (4)

The distribution, exploitation, and conservation of physical and human resources, ecology.

GEO 4390 WATER RESOURCES (4)

A general overview of the hydrologic cycle and the impact of cultural development of its various components. May also include a survey of regional water problems.

GEO 4421 CULTURAL GEOGRAPHY (4)

PR: GEO 3402 or CI. The interrelationships of culture and nature, from pre-historic times to the present.

GEO 4440 POPULATION GEOGRAPHY (4)

PR: GEO 3402 or CI. An analysis of contemporary patterns in world and regional distributions of people and geographical factors underlying these patterns and their changes.

GEO 4460 HISTORICAL GEOGRAPHY (4)

PR: GEO 3402 or CI. Survey of evolving landscapes through time; analysis is made by means of systematic and regional methods in order to reconstruct the changing culture-nature equation.

GEO 4470 POLITICAL GEOGRAPHY (4)

PR: GEO 3402 or CI. The geographic factors underlying political decisions and influencing their outcome; the geographic consequences of these decisions; geopolitics.

GEO 4502 ECONOMIC GEOGRAPHY (4)

PR: GEO 3402 or CI. The spatial organization of economic production, consumption, and exchange systems.

GEO 4604 ADVANCED URBAN GEOGRAPHY (4)

PR: GEO 3402, GEO 3602, or CI. Intensive examination of issues such as economic restructuring and inner-city decline, ghetto formation, gentrification, transportation, and policy-making.

GEO 4700 TRANSPORTATION GEOGRAPHY (4)

PR: GEO 3402 or CI. Interrelationships between freight and passenger transportation and land use, in terms of site, traffic generation, and circulation.

GEO 4900 DIRECTED READING (1-4)

PR: 20 hours in geography and CI prior to registration. May be repeated.

GEO 4910 INDIVIDUAL RESEARCH (1-4)

PR: 20 hours in geography and CI prior to registration. May be repeated.

GEO 5058 GEOGRAPHIC LITERATURE AND HISTORY (3)

PR: Senior or graduate standing in geography, or CI. The origins and development of the discipline as revealed through an examination of the principal written sources. Special attention paid to leading personalities and modern periodicals.

MET 4002 CLIMATOLOGY (4)

PR: GEO 3013 or CI. An introductory course which includes an examination of climatic classification systems, problem climates, and the application of climate to selected topics such as world vegetation patterns, agriculture, housing and health.

MET 4010C METEOROLOGY (4)

PR: GEO 3013 or CI. The earth's atmosphere and its processes; weather forecasting and analysis; instrumentation.

URP 4052 URBAN AND REGIONAL PLANNING (4)

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.

GEOLOGY**GLY 2010 DYNAMIC EARTH: INTRODUCTION TO****PHYSICAL GEOLOGY (3)**

Study of minerals, rocks, and processes of the earth's crust. Introduction to origin and classification of earth's materials and landforms.

GLY 2010L DYNAMIC EARTH LABORATORY (1)

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.

GLY 2030 ENVIRONMENTAL GEOLOGY (3)

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 toward geology major.

GLY 2050 SCIENCE, EARTH AND LIFE

(3)

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 the social relevance of science. Does not count toward geology major.

GLY 2100 HISTORY OF THE EARTH AND LIFE

(3)

PR: 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.

GLY 2100L EARTH HISTORY LABORATORY

(1)

Laboratory study of the history of the earth and life. Required for Geology majors; open to non-majors.

GLY 2930 SELECTED TOPICS IN GEOLOGY

(1-3)

Topical courses in geology of general interest. Does not count toward the geology major.

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 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 2010.)

GLY 4310 PETROLOGY

(4)

PR: GLY 3200, GLY 3220, 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 4341C PETROLOGY OF SEDIMENTARY ROCKS

(4)

PR: GLY 2010, GLY 3200, GLY 3220, and one year of chemistry. A lecture and laboratory class that integrates knowledge of the lithosphere, atmosphere, biosphere, hydrosphere, and cryosphere to study the sedimentary rock record. Examination of the rock record to solve problems in sedimentary geology.

GLY 4511 STRATIGRAPHY AND PETROLEUM GEOLOGY

(4)

PR: GLY 4550. Emphasis on classical principles of litho- and biostratigraphy, basin analysis, geophysical well logging, origin and occurrence of petroleum. Exploration methods are emphasized. Lec.-lab.

GLY 4550 DEPOSITIONAL SYSTEMS

(4)

PR: GLY 3200, GLY 3220, or concurrent registration. 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 rocks. Laboratory experience will include textural mineralogical analysis of sediments and sedimentary rocks as well as exercises involving sequences of sedimentary strata.

GLY 4555C SEDIMENTOLOGY

(4)

PR: GLY 4220, GLY 4550 or CI. Analysis of sedimentary rocks and sedimentary structures as related to their environments of deposition. Textural and mineralogical study of sediments and statis-

tical applications to sediment analysis. Lec.-lab.-field trips.

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 4791 FIELD CAMP PART I - FIELD METHODS

(3)

PR: CI. Senior standing. Linked with Field Camp II. Basic field methods; use of pocket transits, techniques of field location, pace and compass traversing, techniques for lithological and structural data collection, fundamentals of geological data presentation and map making. Field camp is located in northern New Mexico. Requires camping and vigorous physical activity. Lec.-field work.

GLY 4792 FIELD CAMP PART II - FIELD GEOLOGY

(3)

PR: CI. Senior standing. Linked with Field Camp I. Fundamentals of regional field geology; mapping sedimentary, metamorphic and igneous rocks on topographic base maps; interpretation of depositional environments; interpretation of deformational and metamorphic histories. Requires camping and vigorous physical activity. Lec.-field work.

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.

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 5246 GENERAL GEOCHEMISTRY

(3)

PR: One year college chemistry, GLY 4200 or CI. Applications of basic chemical concepts are used to investigate and explain geological processes, the age and formation of the earth, and environmental conditions.

GLY 5285C ANALYTICAL TECHNIQUES IN GEOLOGY

(4)

PR: One year college chemistry, GLY 4220 or CI. Use and application of modern analytical methods including X-ray, atomic absorption, and other geochemical techniques. Interpretation and statistical analysis of data acquired. Lec.-lab.

GLY 5315C IGNEOUS AND METAMORPHIC PETROLOGY

(4)

PR: GLY 4220. Systematic study of igneous and metamorphic rocks and complexes, including origin, composition, and classification. Use of the polarizing microscope for thin-section analysis will be emphasized, and other modern methods of study will be employed. Lec.-lab.

GLY 5475C PRINCIPLES OF APPLIED GEOPHYSICS

(4)

PR: Senior standing, one year of college physics and calculus, or CI. Survey of modern exploration geophysics, including gravimetric, magnetic, electric, and seismic methods as applied to resource exploration and site investigations. Lec.-lab.-field trips.

GLY 5752 GEOLOGICAL FIELD EXCURSION

(2)

PR: GLY 3400, GLY 4550, and GLY 4750. Lectures and 2-3 week field excursion to study regional geology, structure and lithogenesis of geologically complex terrain. Mapping and outcrop description techniques are emphasized. Destination of trip

varies. Trip requires camping and vigorous physical activity. Lec.-field trip.

GLY 5827C ADVANCED HYDROGEOLOGY (4)

PR: GLY 4822, MAC 3282 or MAC 3312 or CI. Flow systems, analytical and numerical solutions to ground water flow problems. Emphasis on the theoretical aspects of ground water flow systems and their interaction with the geologic framework. Lec.

GLY 5865 STATISTICAL MODELS IN GEOLOGY (3)

PR: STA 3023 or equivalent or CI. Application of statistical methods to geological problems. Emphasis on sampling plans, nature of geologic distributions, and application of analyses of variance to solving geological problems. Lec.

GLY 5932 SELECTED TOPICS IN GEOLOGY (1-4)

PR: Senior or advanced junior standing and CC. Each topic is a course in directed study under supervision of a faculty member. All areas of geology included. Departmental permission required prior to registration.

OCE 3001 INTRODUCTION TO OCEANOGRAPHY (3)

Overview of biological, chemical, geological, and physical oceanography. Does not count toward geology major. (Also listed under Marine Science.)

GERONTOLOGY

GEY 3000 INTRODUCTION TO GERONTOLOGY (3)

This course is designed to be an introduction to the study of aging. The aging process is viewed from a multi-disciplinary perspective including the biological, psychological, and sociological aspects of aging.

GEY 3601 BEHAVIOR CHANGES IN LATER LIFE (3)

PR: GEY 3000. A survey of physical and psychological aspects of aging from middle age through older age. Course emphasis will be on basic age-related changes and their implications for behavior in older age.

GEY 3625 SOCIOCULTURAL ASPECTS OF AGING (3)

PR: GEY 3000. 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 4327 LONG-TERM CARE ADMINISTRATION I (3)

PR: GEY 3000, ACG 2011. 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 from a group dynamics perspective. Emphasis on informed problem solving and decision-making via analysis of the psychosocial and sociocultural environment in the nursing home community. Course objective is to create efficient and humane living and working conditions in nursing homes.

GEY 4329 LONG-TERM CARE ADMINISTRATION III (3)

PR: GEY 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 4360 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 4401 RESEARCH METHODS IN GERONTOLOGY (3)

PR: STA 3122 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 4640 DEATH AND DYING (3)

PR: GEY 3000. 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 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. May be repeated up to 6 credit hours.

GEY 4945 FIELD PLACEMENT (6-8)

PR: CI. Internship in an agency or community setting. A full-time assignment to an agency or organization, engaged in planning or administering programs for older people if in the BA program, or to a nursing home if in the BS program.

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 sub-systems.

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 3001 INTRODUCTION TO HUMAN SERVICES (3)

An introduction to the field of human services. Study of the professions and agencies involved in providing human services. Analysis of the values and ethics of various professional associations.

HUS 4020 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.

HUS 4100 INTERVIEWING (3)

PR: HUS 3001. The principles and techniques of interviewing. Use of interviewing in information gathering, research and helping relationships and developing skills in communication across cultural, social and age barriers.

HISTORY

AFH 3100 AFRICAN HISTORY TO 1850 (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 (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 (3,3)

A history of the United States with attention given to relevant developments in the Western Hemisphere, AMH 2010: European origins to 1877; AMH 2020: 1877 to present.

AMH 3110 AMERICAN COLONIAL HISTORY TO 1750 (4)

A study of the evolution of American society from the Age of Reconnaissance to 1750. Attention is given to 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. Also examines the significance of loyalism, violence, and slavery in American society from 1750-1789.

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 3170 THE CIVIL WAR AND RECONSTRUCTION** (4)
An examination of political, social, and economic climate of the 1850's that led to the American Civil War. The course does focus upon the war itself in its military, diplomatic, and political consequences through the end of the Reconstruction (1877).
- AMH 3201 THE UNITED STATES, 1877-1929** (4)
A study of America from the end of Reconstruction to the stock market crash. Ranging over political, social, and diplomatic developments, the course covers industrialization, reform, imperialism, feminism, race relations and World War I.
- AMH 3252 THE UNITED STATES SINCE 1929** (4)
The United States from the Great Depression to the present. Covering political, social and diplomatic developments, examines the New Deal, World War II, the Cold War, Viet Nam, civil rights, feminism and Watergate.
- AMH 3402 THE OLD SOUTH** (4)
A study of the American South from its colonial origins to the fall of the Confederacy in 1865. Emphasis on slavery and race, the Southern frontier, the development of sectional consciousness, and the coming of the Civil War.
- AMH 3403 THE SOUTH SINCE 1865** (4)
Southern history since the surrender at Appomattox. Topics covered include Reconstruction, the Populist revolt, race relations, demagoguery and disfranchisement, Southern women, and the Civil Rights Movement.
- AMH 3421 EARLY FLORIDA** (4)
A history of colonial Florida under the Spanish and English. Florida as an area of discovery, colonization, and imperial conflict; the emergence of Florida within the regional setting.
- AMH 3423 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 of workers (including minorities and women), and their responses as expressed in strikes, unions, and political action.
- AMH 3510 U.S. DIPLOMATIC HISTORY TO 1898** (3)
The development of American Foreign Relations in the Agricultural era.
- AMH 3511 U.S. DIPLOMATIC HISTORY IN THE 20TH CENTURY -6A** (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 Viet Nam.
- 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 3800 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)
Political, economic, and social history of China from the time of the first major Western contacts (17th-18th Centuries) through the consolidation of socialism in the late 1950's, and the Great Leap Forward.
- 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, 2012 ANCIENT HISTORY I, II** (3,3)
An introductory survey of ancient history. EUH 2011 treats the ancient Near East and Greece from the origins of civilization to the full development of the Hellenistic kingdoms prior to conflict with Rome. 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)
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)
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.
- 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 daily life. 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, townsmen, and the agrarian-urban economy and society which affected their lives.
- EUH 3189 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 history 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 3300 BYZANTINE HISTORY** (4)
A survey of the Byzantine (Eastern Roman) Empire from its foundation in A.D. 330 to its collapse in 1453. Emphasis on the relationship between the Byzantine Empire and the course of European history and on the cultural heritage of this Empire.
- EUH 3401 CLASSICAL GREECE** (4)
A study of ancient Greece focusing on the brilliant period following the Persian Wars, but embracing as well the formative Bronze, Middle and Archaic ages, and the decline culminating in the conquest of Greece by Philip II of Macedon in 338 B.C.
- EUH 3402 AGE OF ALEXANDER** (4)
A study focusing on the career of Alexander the Great and on 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 Roman 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-Prussian, 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 3571 RUSSIAN HISTORY TO 1865 (4)
A survey of the social, political, economic, and cultural development of Russia from the year 800 to 1865. Topics include the personality of Russian rulers, the origins of Russian Socialism, and Russia's relationship to the West.

EUH 3572 RUSSIAN HISTORY 1865 TO PRESENT (4)
An analysis of the tradition from late imperial society to the contemporary Soviet system. Emphasis will be placed on continuity and change in the economic, political, and cultural aspects of Russia from 1865 to present.

HIS 2931 SPECIAL TOPICS (3)
This course emphasizes a selected historical problem or issue. A variety of instructional approaches will be taken, and topics may vary.

HIS 3474 SCIENCE AND CIVILIZATION -6A (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 3930 SPECIAL TOPICS (3-4)
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 and writing from ancient times to the present.

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 (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 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 (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 (3)
Survey of European women from the late Middle Ages to the twentieth century: differing consequences of historical change for women and men. (May also be taken for credit in Women's Studies.)

WST 4309 THE FEMALE EXPERIENCE IN AMERICA (3)
PR: WST 2010, or WST 3011, or Cl. 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. (May also be taken for credit in Women's Studies.)

WST 4310 FEMINISM IN AMERICA (4)
PR: WST 2010, or WST 3011, or Cl. Emergence of the women's movement in 19th century America: origins, theoretical and practical issues, relation to European feminism. Sources, issues, implications of 20th century feminism. (May also be taken for credit in Women's Studies.)

HUMANITIES

HUM 2930 SELECTED TOPICS (1-4)
An introductory course dealing with a recurrent theme in the arts or focusing on a particular artistic center (a nation or city at a particular time). May be repeated for credit with change of content. May be repeated up to 8 credit hours.

HUM 3024 THE ARTS (3)
Analysis of selected works of literature, music, film, and visual art, representing artists of diverse periods, cultures, genders, and races. Especially recommended for students who later take 4000-level Humanities courses.

HUM 3214 STUDIES IN CULTURE: THE CLASSICAL THROUGH MEDIEVAL PERIODS (3)
A survey of literature and the arts of ancient Greece, Rome, and medieval Europe. Issues to be examined may include the dialogue between local traditions and cosmopolitan cultures, the relationship of the individual to society, and the bases for moral values.

HUM 3243 STUDIES IN CULTURE: THE RENAISSANCE THROUGH THE NINETEENTH CENTURY (3)
A historical survey of the visual arts, literature, music and thought of Europe from the Renaissance through the nineteenth century. Issues to be examined may include the relationship between science and the arts and the consequences of the

- growing contacts among world civilizations.
- HUM 3251 STUDIES IN CULTURE: THE TWENTIETH CENTURY** (3)
Analyses of selected works of twentieth century art, including films, paintings, music, and literature, in the context of major political, social, and economic events, such as war, depression, totalitarianism, and technological change.
- HUM 3271 THE CULTURE OF THE EAST AND WEST I** (3)
A comparative treatment of music, visual arts, theatre, literature, and philosophy in the East and West, proceeding chronologically from Ancient times through the Middle Ages, emphasizing Europe and India.
- HUM 3273 THE CULTURE OF THE EAST AND WEST II** (3)
A comparative treatment of music, visual arts, theatre, literature, and philosophy in the East and West, proceeding chronologically from the Renaissance through the present, emphasizing Europe, the United States, and India.
- HUM 4402 HUMANITIES IN THE ORIENT: INDIA** (4)
PR: Sophomore standing or CI. Examples from the arts and letters of India and the relationship of these arts to the Hindu and Buddhist philosophy-religions.
- HUM 4404 HUMANITIES IN THE ORIENT: CHINA** (4)
PR: Sophomore standing or CI. Examples from the arts and letters of China; their relationship to Taoism, Confucianism and other Chinese philosophies; Western influences on twentieth century Chinese arts and letters.
- HUM 4405 HUMANITIES IN THE ORIENT: JAPAN** (4)
PR: Sophomore standing or CI. Examples from the arts and letters of Japan, their relationship to Zen Buddhism and other Japanese philosophy-religions; Western influences on twentieth century Japanese arts and letters.
- HUM 4433 CLASSICAL ARTS AND LETTERS I** (4)
PR: Sophomore standing or CI. A study of the poetry, drama, philosophy, historical writing, painting, sculpture and architecture of ancient Greece, including such authors as Homer, Sophocles, and Plato, and monuments such as the Parthenon.
- HUM 4434 CLASSICAL ARTS AND LETTERS II** (4)
PR: Sophomore standing or CI. A study of the poetry, drama, philosophy, historical writing, painting, sculpture and architecture of ancient Rome, including such authors as Virgil, Livy, and Cicero, the monuments of Rome, Pompeii, and Herculaneum.
- HUM 4435 MEDIEVAL ARTS AND LETTERS I** (4)
PR: Sophomore standing or CI. A study of the culture of Europe and the Mediterranean world from the 4th to 11th centuries through readings of early Medieval historians, poets, and theologians, as well as the study of illuminated manuscripts, mosaics, painting, and architecture.
- HUM 4436 MEDIEVAL ARTS AND LETTERS II** (4)
PR: Sophomore standing or CI. A study of the culture of Western Europe from the 9th to 14th centuries. Readings will include poetry and religious works; examples of painting, architecture, sculpture and music will be studied.
- HUM 4437 RENAISSANCE ARTS AND LETTERS I** (4)
PR: Sophomore standing or CI. A study of the Italian Renaissance, 1300-1580, emphasizing Humanism, painting, architecture, literature, music and sculpture. Special study will be done of Petrarch, Giotto, DaVinci, and Michelangelo.
- HUM 4438 RENAISSANCE ARTS AND LETTERS II** (4)
PR: Sophomore standing or CI. A study of the Northern Renaissance, 1400-1580, as exemplified in Germany, France, the Netherlands, England, and Spain. The course includes painting, architecture, literature and music, with special study of Durer, Van Eyck, El Greco, and Bosch.
- HUM 4440 ARTS AND LETTERS IN THE 17TH AND 18TH CENTURIES** (4)
PR: Sophomore standing or CI. This course includes the arts, literature, and music of the Baroque, Rococo, and Neo-Classical periods with special study of Rubens, Rembrandt, Bach, Haydn, and Mozart.
- HUM 4442 ARTS AND LETTERS OF THE ROMANTIC PERIOD** (4)
PR: Sophomore standing or CI. Continental masterworks of fiction, painting, and music in the context of European cultural history from the French Revolution to the Revolutions of 1848.
- HUM 4444 NINETEENTH CENTURY ARTS AND LETTERS** (4)
PR: Sophomore standing or CI. A study of continental literary, musical, and artistic masterworks from the Revolutions of 1848 until the outbreak of World War I.
- HUM 4445 TWENTIETH CENTURY ARTS AND LETTERS I** (4)
PR: Sophomore standing or CI. Analysis of selected works of twentieth century art. The course will focus on a particular phase in the development of modernism, a set of themes, or certain stylistic aspects of various arts of the twentieth century.
- HUM 4446 TWENTIETH CENTURY ARTS AND LETTERS II** (4)
PR: Sophomore standing or CI. Analysis of selected works of twentieth century art. The course will focus on a particular phase in the development of modernism, a set of themes, or certain stylistic aspects of various arts of the twentieth century.
- HUM 4452 HUMANITIES IN AMERICA I** (4)
PR: Sophomore standing or CI. Study of selected works of art, tracing the course of westward expansion in civilization, and the interaction between the arts and the sciences in American ways of life and work, 1790-1890.
- HUM 4453 HUMANITIES IN AMERICA II** (4)
PR: Sophomore standing or CI. Study of selected works, tracing the course of expansion in the production and enjoyment of works of art, and interaction between the idealistic and pragmatic concerns for development of the arts in the 20th century.
- HUM 4462 LATIN AMERICAN ARTS AND LETTERS I** (4)
PR: Sophomore standing or CI. Analysis of selected Latin American works of art in their cultural context, with emphasis on major art forms selected from the Pre-Columbian period.
- HUM 4464 LATIN AMERICAN ARTS AND LETTERS II** (4)
PR: Sophomore standing or CI. Analysis of selected Latin American works of art in their cultural context, with emphasis on major art forms selected from the colonial through contemporary periods.
- HUM 4905 DIRECTED STUDY** (1-4)
PR: CI. Specialized individual study determined by the student's needs and interests.
- HUM 4930 SELECTED TOPICS IN HUMANITIES** (1-4)
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** (4)
PR: Humanities major or CI; Senior standing. Discussion of interdisciplinary humanities. Includes essay. (Fall term only.)
- HUM 4938 MAJOR ISSUES IN THE HUMANITIES** (3)
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.
- HUM 4941 STUDY ON LOCATION** (1-4)
Prerequisites: None. The art of a 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.

INTERDISCIPLINARY SOCIAL SCIENCES

- ISS 3010 INTRODUCTION TO THE SOCIAL SCIENCES** (3)
An introduction to the fields within the social sciences. Emphasis is placed on the concepts, theories methodologies and applications used in the social sciences. Course may be taken by non-majors.
- ISS 3930 SELECTED TOPICS IN THE SOCIAL SCIENCES** (1-4)
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** (3)
An interdisciplinary perspective will be used to analyze the emergence of the city and the urban revolution. Urban planning and governance will be examined in looking at how urban areas deal with social and physical problem.
- ISS 4164 URBAN SOCIAL ISSUES: AN INTERDISCIPLINARY APPROACH** (3)
This course is designed to examine current social issues from an interdisciplinary perspective. Topic selection will be within the broad framework of technological changes, economic conditions, political ideologies, and their impact on changing social patterns.

ISS 4900 DIRECTED READINGS (1-3)
PR: CI. A supervised program of intensive reading of interdisciplinary materials in areas of specific interest. May be repeated.

ISS 4910 DIRECTED RESEARCH (1-3)
PR: CI. A supervised program of interdisciplinary research in areas of specific interest. May be repeated.

ISS 4935 SEMINAR IN THE SOCIAL SCIENCES (3)
PR: Senior standing and ISS 3010. A capstone course designed to provide an in-depth study of topical areas related to the social sciences. Course may be taken by non-majors.

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.

STA 3122 SOCIAL SCIENCE STATISTICS -6A (3)
This course is designed to introduce concepts, theories, and assumptions that underlie specific techniques used in the social sciences. Emphasis is placed on selection of appropriate techniques given the research design to be utilized.

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 (3)

ASN 3012 JAPAN TODAY (3)

ASN 3014 CHINA TODAY (3)

ASN 3030 THE MIDDLE EAST (3)

EUS 3000 EUROPE (3)

EUS 3022 RUSSIA (3)

LAS 3002 LATIN AMERICA (3)

INR 1015 WORLD PERSPECTIVE (3)

An interdisciplinary study of the international system, major world regions and problems.

INR 2085 WORLD TENSIONS (2)

A study of the major causes and consequences of critical tensions which lead to serious social disturbances among and within the independent states of the world.

INR 2930 SELECTED TOPICS (1-4)

Interdisciplinary 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 (3)

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 (3)

A course which details and examines the ideologies of today's independent countries; analyzing them in their political, social, cultural and historical context.

INR 3038 INTERNATIONAL WEALTH AND POWER (3)

Introduction to the relationship between politics and economics, emphasizing the analysis of government policies in response to both domestic and international economic problems.

INR 3080 ACTORS IN THE INTERNATIONAL SYSTEM (3)

An examination of the subnational, national, and transnational institutions to include ethnic groups, insurgents, nation-states, nationalism, multinational corporations, international organizations and major religions.

INR 3082 ISSUES IN THE INTERNATIONAL SYSTEM (3)

A study which emphasizes the problems and processes of international actors. Focuses on issues related to war and peace, political economy, and social welfare topics.

INR 3087 INTERNATIONAL TERRORISM (3)

A study of contemporary international terrorism and its causes, ranging from national liberation movements to networks of philosophical anarchists.

INR 3141 INTERNATIONAL NUCLEAR POLICY (3)

A study of nuclear issues (such as system development, proliferation, control, strategic policy and war) as they relate to contemporary international politics.

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 4250 THE POLITICAL ECONOMY OF THE SOUTHERN NATIONS (3)
A multidisciplinary study of the efforts of the nations in the South (Africa, Asia, Latin America and the Middle East) to improve their status through political and economic development.

INR 4900 DIRECTED READINGS (1-3)
PR: CI. A supervised program of intensive reading of interdisciplinary materials in areas of specific interest. May be repeated.

INR 4910 DIRECTED RESEARCH (1-3)
PR: CI. 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 (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. (For majors only.)

WST 3275 WOMEN IN THE DEVELOPING WORLD (3)
A comparative study of woman's status in various developing nations with that in various industrialized states. (Also offered under Women's Studies Program.)

LIBERAL STUDIES

IDS 2931 SELECTED TOPICS (2-5)
Selected topics in the liberal arts. A basic introduction to the substance and theory of contemporary topics in the arts and sciences. May be repeated as topics vary.

IDS 3300 STRUCTURES OF KNOWLEDGE AND KNOWING (4)
Distinguishing the modalities of human knowledge and awareness 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 standpoints 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 USE OF THE LIBRARY (3)
An introduction to the resources of the University of South Florida Library. Emphasis will be placed on library materials germane to the course work of the undergraduate.

LIS 4302 PRODUCING AUDIOVISUAL MATERIALS (2)
PR: Upper level standing or CI. Basic skills in designing and preparing audiovisual materials for wide variety of instructional

and communicative purposes.

- 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 LIBRARIANSHIP** (3)
Overview of the introduction to the study of library service; history; organization; specialized literature; outstanding leaders; current trends, issues, and problems. Place of the library in society with its contributions to that society.
- LIS 5434 COMMUNITY COLLEGE LIBRARIANSHIP** (3)
Introduction to the community college concept, examination of the basic elements, functions, purposes, directions, programs, etc. inherent in both the community college and the library resources center which serves it.
- LIS 5937 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.

LINGUISTICS

- ENS 1483 ENGLISH FOR FOREIGN STUDENTS I** (3)
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** (3)
PR: ENS 1483 or CI. A continuation of ENS 1483. Emphasis on reading and composition.
- LIN 3010 INTRODUCTION TO LINGUISTICS** (3)
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** (3)
A survey introduction for non-specialists to the basic principles of semantics and the way language conveys ideas. This course is also available on WUSF/TV Channel 16 by the O.U. Program.
- LIN 4040 DESCRIPTIVE LINGUISTICS** (3)
PR: LIN 3010 or CI. Introduction to the basic techniques 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** (3)
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** (3)
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** (3)
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** (1-3)
PR: CI. Readings in special topics. Must be arranged prior to registration.
- LIN 4930 SELECTED TOPICS** (1-3)
PR: CI. Course content depends upon students' needs and instructor's interest and may range over the entire field of linguistics.
- LIN 5700 APPLIED LINGUISTICS** (3)
Analysis of the phonological, morphonological, and syntactic

features of English as a basis for linguistic application to problems of English language acquisition by non-native speakers.

- TSL 4374 METHODOLOGY OF TEACHING ENGLISH OVERSEAS** (3)
PR: Upper-level standing. Designed to introduce and prepare the enrollee in the various facets of teaching English as a foreign language in the overseas setting. It will include aspects of teaching verbal skills and comprehension as well as writing. It involves a practicum at the English Language Institute on campus.
- TSL 5321 ESOL STRATEGIES FOR CONTENT AREA TEACHERS** (3)
This course is designed for public school teachers working with limited English proficient (foreign) students in the classroom. The new ESOL requirements specify that this course be offered to content area teachers and to ESOL teachers. May not be repeated for additional credit hours.
- TSL 5371 METHODS OF TEACHING ENGLISH AS A SECOND LANGUAGE** (3)
Analysis of the methods of teaching English pronunciation and structure to speakers of other languages.
- TSL 5372 ESOL CURRICULUM AND INSTRUCTION** (3)
Analysis of the methods of teaching English pronunciation and structure to speakers of other languages.
- TSL 5471 LANGUAGE TESTING** (3)
PR: TSL 5371. This is a lecture course on the methodology of testing English as a second/foreign language. May not be repeated for additional credit hours.
- TSL 5525 CROSS CULTURAL ISSUES IN ESL** (3)
PR: LIN 5700. This is a lecture course on cultural issues in teaching English as a second/foreign language. May not be repeated for additional credit hours.

MARINE SCIENCE

- OCE 3001 INTRODUCTION TO OCEANOGRAPHY** (3)
Overview of biological, chemical, geological, and physical oceanography. (Also listed under Geology.)

MASS COMMUNICATIONS

- ADV 3000 INTRODUCTION TO ADVERTISING** (3)
PR: MMC 3100 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 3002 ADVERTISING DESIGN** (3)
PR: ADV 3000 for advertising majors; VIC 3000 for other Mass Comm majors. Application of graphic design principles to various areas of advertising. Combining visual and verbal elements effectively.
- ADV 3101 ADVERTISING COPYWRITING** (3)
PR: ADV 3000 and ECO 2023. Study of laboratory experience in preparation of advertising copy for newspapers, magazines, radio, television, direct mail, outdoor displays, and special items.
- 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 3300 ADVERTISING MEDIA STRATEGY** (3)
PR: ACG 2001, ADV 3000, ECO 2023 and ECO 2013. 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: ACG 2001, ADV 3101, ADV 3300, MMC 4420, ECO 2013, ECO 2023, and MAR 3023. 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 selected advertising sequence majors. Practical experience outside the classroom in a live advertising situation where the student works for academic credit under the tutelage of a professional practitioner. (S/U only.)

- FIL 3004 THE FILM AS MASS COMMUNICATION I: SYNTAX (3)**
PR: MMC 3100 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. Concurrent laboratory experiences in control of light and line.
- FIL 3200 THE FILM AS MASS COMMUNICATION II: RHETORIC AND STYLISTICS (3)**
PR: FIL 3004. A continuation of FIL 3004 to include the effective arrangements of scenes and sequences in motion picture and television films. Concurrent laboratory experiences in sound and editing.
- FIL 4404 SOCIAL HISTORY OF THE FILM, 1945 TO THE PRESENT (3)**
PR: MMC 3100 and MMC 3602. The development of the film from 1945 to the present.
- JOU 3006 MAGAZINES IN SOCIETY (3)**
PR: MMC 3100 and MMC 3602. A study of the development of various types of magazines in America, and a critical analysis of current problems and performances of periodicals along with changes indicated for the future.
- JOU 3100 BEGINNING REPORTING (3)**
PR: MMC 3100 and MMC 3602. Basic instruction in news judgment, sources of news, newsgathering, and news writing techniques. Typing ability is required.
- JOU 3101 ADVANCED REPORTING (3)**
PR: POS 2041, JOU 3100, or RTV 3300 (RTV majors only), JOU 4200 (may be taken concurrently), and PHI 1103. 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, JOU 3100. Planning, researching, writing, and marketing articles for general and special interest magazines and newspaper magazine supplements; experiences in developing article idea; inductive analysis of contemporary magazine articles.
- JOU 3306 CRITICAL WRITING: EDITORIALS, REVIEWS, COLUMNS (3)**
PR: JOU 3101, 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 REPORTING PRACTICUM (1)**
PR: JOU 3101 and CI. For selected News-Editorial Sequence majors. Practical experience outside the classroom in a live newspaper reporting situation where the student works for academic credit under the tutelage of a professional practitioner. (S/U only.)
- JOU 4104 PUBLIC AFFAIRS REPORTING (3)**
PR: JOU 3101, POS 2041 and 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 and interpretation of public documents and records.
- JOU 4200 NEWS EDITING I (3)**
PR: ECO 2935, JOU 3100, and SYG 3010. 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 selected News-Editorial Sequence majors. Practical experience outside the classroom at a daily newspaper copydesk, where the student works for academic credit under the tutelage of a professional news editor. (S/U only.)
- JOU 4944 MAGAZINE PRACTICUM (1)**
PR: Senior standing and CI. For selected Magazine Sequence majors. Practical experience outside the classroom in a magazine or industrial publication situation where the student works

for academic credit under the tutelage of a professional practitioner. (S/U only.)

- JOU 5196 EXPLORATIONS IN NEWSWRITING (3)**
PR: Graduate Status in Mass Communications or CI. Students work to develop writing styles, reporting on and creating stories about significant issues, events, and ideas. The course explores the notion that narrative-style journalism can be accurate, thorough, fair, and compelling, effectively bringing readers into stories and giving them a bigger stake in the news. The focus is on going beyond traditional practices of reporting and writing news stories.
- MMC 3100 WRITING FOR THE MASS MEDIA (3)**
PR: Sophomore standing; 2.7 GPR; grade of "C" in ENC 1101, ENC 1102, typing proficiency, 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)**
PR: Sophomore standing. A survey of the history, theory processes, and philosophy of mass communications and the mass media in the United States, and their relationship to the other major institutions of American society.
- MMC 4123 MEDIA SCRIPT WRITING (3)**
PR: MMC 3100 and MMC 3602. An introduction to the techniques of writing scripts for photographic and multi-media presentation, electronic media, and industrial and documentary film.
- MMC 4200 HISTORY AND PRINCIPLES OF COMMUNICATIONS LAW (3)**
PR: MMC 3100 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 3602 and MMC 3100 or CI. A study of the fundamental principles and philosophies 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 3100, 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, CC and CI. Reading and directed study in special topics.
- MMC 4910 INDIVIDUAL RESEARCH IN MASS COMMUNICATIONS (1-3)**
PR: CC 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: Junior standing. 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 Com. courses and completion of an 8-12 week media internship with newspaper, broadcast station, or other media-related agency approved by the department and paid by the sponsor. Reports on experiences for discussion and evaluation. (S/U only.)
- PGY 3610 PHOTOJOURNALISM I (3)**
PR: MMC 3100 and MMC 3602. Camera operation, darkroom techniques, picture composition; editing, ethics, history, and laws in connection with photojournalism.
- PGY 3620 PHOTOJOURNALISM II (3)**
PR: PGY 3610. Advanced process and practice of photography for publication. Content includes advanced camera and laboratory techniques, publication requirements and theory of photochemical color separation used in magazine and newspaper. Emphasis is placed on student production.
- PGY 4110C COLOR PHOTOGRAPHY (3)**
PR: PGY 3620. 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. Laboratory required.

- PUR 3000 PRINCIPLES OF PUBLIC RELATIONS** (3)
PR: MMC 3100 and MMC 3602. The functions of public relations within corporate and institutional structures; ethical standards of practice, and relationships of the practice to the public media and other modes of contemporary communication.
- PUR 4001 ADVANCED PUBLIC RELATIONS** (3)
PR: PUR 4401, PUR 4100, and MMC 4420. As final course in PR sequence, it involves intensive study of counseling and problem-solving techniques used in professional practice. Analysis of case studies and preparation of complete PR program. Extensive reading in the literature of contemporary practice.
- PUR 4100 WRITING FOR PUBLIC RELATIONS** (3)
PR: JOU 3100, PUR 3000. Persuasive writing techniques unique to the practice of public relations; application of principles and ethical practices to problem-solving situations drawn from case studies; writing formats used in promotional and publicity literature.
- PUR 4401 PUBLIC RELATIONS: ISSUES, PRACTICES AND PROBLEMS** (3)
PR: PUR 3000. The theory of public relations practice and its application in the real world. The role of the public relations practitioner in business, government and social institutions, and the nature of specialized areas of the practice. Identification of public issues, analysis of potential impact on organizations and development of strategies to deal with them successfully and responsibly. Communication techniques and trends.
- PUR 4700 PUBLIC RELATIONS PRACTICUM** (1)
PR: Senior standing and CI. For selected Public Relations Sequence majors. Practical experience outside the classroom in a professional public relations situation where the student works for academic credit under the tutelage of a professional practitioner.
- RTV 3000 INTRODUCTION TO TELECOMMUNICATIONS** (3)
PR: MMC 3100 and MMC 3602. A survey of the organization, structure, and function of the broadcasting industry.
- RTV 3100 WRITING FOR RADIO AND TV** (3)
PR: ENC 3310 or CRW 2100, RTV 3000. The writing of radio and television scripts such as documentaries, children's programs, commercials, dramas, talks, and demonstrations.
- RTV 3210 RADIO PRODUCTION AND DIRECTION** (3)
PR: RTV 3000. Radio production and direction; laboratory and broadcast experiences.
- RTV 3225 VIDEO WORKSHOP** (1)
PR: MMC 3100 and MMC 3602. An introduction to the techniques and applications of field television production and electronic editing.
- RTV 3300 BROADCAST NEWS** (4)
PR: MMC 3602 AND MMC 3100. The study and methods in gathering, writing, and editing newscasts for radio and television.
- RTV 3941 RADIO PRACTICUM** (1)
PR: RTV 3210 and CI. The study, rehearsal, and production of radio programs and materials. (S/U only.)
- RTV 4220 TV PRODUCTION AND DIRECTION** (3)
PR: RTV 3000, and junior standing. A basic course in the techniques of producing and directing TV programs.
- RTV 4301 TV NEWS FILM** (3)
PR: RTV 3300 and RTV 3225. Techniques in writing and filming for television news.
- RTV 4320 ELECTRONIC FIELD PRODUCTION** (3)
PR: RTV 3300 or RTV 3225. Advanced producing, scripting, lighting, camera, and editing for video production on location. Introduction to computer editing and graphics.
- RTV 4500 THE BROADCAST PROGRAM** (3)
PR: RTV 3000. 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: RTV 3000, RTV 3300, MMC 4200, POS 3142 or POS 2112; for Programming Option: RTV 3000, RTV 4500, RTV 3100 or RTV 3300, and Senior standing. A study of broadcasting industry 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. The study, rehearsal and production of television programs and materials. (S/U only.)
- VIC 3000 INTRODUCTION TO VISUAL COMMUNICATIONS** (3)
PR: MMC 3100 and MMC 3602. The survey of visual communication theory, techniques, and their contemporary application and social influences as applied to the visual media with emphasis on still photography, motion pictures, video tape, and graphics.
- VIC 3943 VISUAL COMMUNICATION PRACTICUM** (1)
PR: Senior standing and CI. For selected Visual Communications Sequence majors. Practical experience outside the classroom in a professional environment where the student works for academic credit under the tutelage of a professional practitioner. (S/U only.)

MATHEMATICS

- CGS 3422 COMPUTER APPLICATIONS OF MATHEMATICS -6A** (3)
CR: MAS 3103. Introduction to FORTRAN (WATFIV) with special emphasis on its applications to Mathematics.
- COP 4210 MATHEMATICAL PROBLEM SOLVING USING PASCAL-6A** (3)
PR: MAS 3103, and the ability to program at least one other language. The highly structured programming language PASCAL is used to solve numerical and non-numerical problems in mathematics involving graph theory, combinatorics, and number theory. Non-numerical data structures and algebraic manipulation are emphasized.
- MAA 4211 MULTIVARIATE CALCULUS -6A** (4)
PR: MAC 3313 or MAC 3283 with a grade of "C" or better, MAS 4301 and MAS 3103. Vector-valued functions, multiple integrals, line and surface integrals.
- MAA 4212 INTERMEDIATE ANALYSIS -6A** (4)
PR: MAA 4211. A theoretical treatment of differential and integral calculus of one and several variables. Emphasis on techniques of proof.
- MAA 5306 REAL ANALYSIS I** (3)
PR: MAA 4212. Riemann-Stieltjes integrals, uniform convergence, Fourier series, Lebesgue measure and integration on \mathbb{R} .
- MAA 5307 REAL ANALYSIS II** (3)
PR: MAA 5306. Metric spaces, Banach spaces, and function spaces; measure and integration on abstract 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** (3)
PR: Passing score on placement test. 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: Passing score on placement test. 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** (4)
Passing score on placement test. Real numbers and their properties, algebraic expression, equations and inequalities, functions, polynomials, 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 3233 or MAC 2102.)
- MAC 3233 ELEMENTARY CALCULUS I -6A** (4)
PR: Passing score on placement test. Differentiation and integration of algebraic functions with applications, exponential and logarithmic functions. MAC 3233-MAC 3234 are primarily for students from Biological Sciences, Social Sciences and Business. (No credit for math majors or students with credit in MAC 3281 or MAC 3311).

- MAC 3234 ELEMENTARY CALCULUS II -6A** (4)
PR: MAC 3233. Techniques of integration, differential equations, functions of several variables, series and Taylor polynomials. (No credit for Mathematics majors or students with credit in MAC 3282 or MAC 3312.)
- MAC 3281 ENGINEERING CALCULUS I -6A** (3)
PR: Pass placement tests in algebra and trigonometry. Differentiation, limits, differentials, extrema, indefinite integral. (No credit for students with credit in MAC 3233 or MAC 3311.)
- MAC 3282 ENGINEERING CALCULUS II -6A** (3)
PR: MAC 3281 or CC. Definite integral, trigonometric functions, log, exponential, series, applications. (No credit for students with credit in MAC 3234 or MAC 3312.)
- MAC 3283 ENGINEERING CALCULUS III -6A** (3)
PR: MAC 3282 or CC. Techniques of integration, numerical methods, analytic geometry, polar coordinates, Vector algebra, applications. (No credit for students with credit in MAC 3313.)
- MAC 3311 CALCULUS I -6A** (4)
PR: Pass placement tests in algebra and trigonometry. Limits, derivatives, applications. (No credit for students with credit in MAC 3233 or MAC 3281.)
- MAC 3312 CALCULUS II -6A** (4)
PR: MAC 3311 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 3234 or MAC 3282.)
- MAC 3313 CALCULUS III -6A** (4)
PR: MAC 3312 with a grade of "C" or better or CC. Integration, polar coordinates, conic sections, vectors, indeterminate forms and proper integrals. (No credit for students with credit in MAC 3283.)
- MAD 3100 DISCRETE MATHEMATICS -6A** (3)
PR: MAC 3281 or MAC 3311. 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.
- MAD 4401 NUMERICAL ANALYSIS -6A** (4)
PR: MAS 3103; 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 5101 LISP: PROGRAMMING WITH ALGEBRAIC APPLICATIONS** (3)
PR: MHF 5306 or MAD 6510 or MAS 5311 or CI. Programming in LISP, functional languages, foundations of Lambda Calculus and algebraic applications (theorem proving and game playing).
- MAD 5305 INTRODUCTION TO GRAPH THEORY** (3)
PR: CI. Brief introduction to classical graph theory (4-color theorem, etc.), directed graphs, connected digraphs, condensations, incidence matrices, Polya's Theorem, networks.
- MAE 5875 ABSTRACT ALGEBRA FOR TEACHERS** (3)
PR: MAS 3103 and 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.)
- MAE 5877 MATHEMATICAL ANALYSIS FOR TEACHERS** (3)
PR: MAC 3313 and bachelor's degree or CC. Advanced consideration of limits continuity, derivatives, differentials. (No credit for Mathematics majors.)
- MAP 4302 DIFFERENTIAL EQUATIONS -6A** (3)
PR: MAC 3283 or MAC 3313. First order linear and nonlinear differential equations, higher order linear equations, applications.
- MAP 5205 MATHEMATICAL OPTIMIZATION THEORY I** (3)
PR: MAS 3103 and MAA 4211, or equivalent. Content: Unconstrained and linearly constrained extrema linear and nonlinear programming, application to matrices and quadratic forms, Lagrange multiplier rule for equality constraints.
- MAP 5316 ORDINARY DIFFERENTIAL EQUATIONS I** (3)
PR: MAP 4302, MAA 4211, or CI. Existence and uniqueness theory, properties of solutions, linear systems, stability theory, Sturm-Liouville theory.
- MAP 5317 ORDINARY DIFFERENTIAL EQUATIONS II** (3)
PR: MAP 5316 and MAA 5307 or CI. Topics selected from fixed point theory, comparison theory, oscillation theory, Poincare-Bendixson Theory, Lyapunov functions, eigenfunction expansions.
- MAP 5345 APPLIED PARTIAL DIFFERENTIAL EQUATIONS** (3)
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 4302 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 3103 LINEAR ALGEBRA -6A** (3)
CR: MAC 3283 or 3313. Linear equations, matrices, real vector spaces, relationship between linear transformations and matrices, determinants, inner product spaces, eigenvalues and eigenvectors.
- MAS 4124 NUMERICAL LINEAR ALGEBRA -6A** (3)
PR: MAS 3103. 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 ANALYSIS -6A** (3)
PR: MAC 3313 or MAC 3283 or CI. The algebra and calculus of vectors, line and surface integrals, Divergence Theorem, Stokes' Theorem, generalized coordinates, applications. (No credit for both MAA 4211 and MAS 4156.)
- MAS 4214 ELEMENTARY NUMBER THEORY** (3)
PR: MAC 3312. Divisibility, prime numbers, Fundamental Theorem of Arithmetic, Diophantine equations, the algebra of congruences, number functions and other selected topics.
- MAS 4301 ELEMENTARY ABSTRACT ALGEBRA -6A** (3)
PR: MAC 3311 or MAC 3281. An introduction to basic set theory: sets, functions, and relations. An introduction to the basic algebraic structures: groups, rings, and fields. Homomorphisms and isomorphisms. A rigorous treatment of the real and complex number systems.
- MAS 5107 ADVANCED LINEAR ALGEBRA** (3)
PR: MAS 3103, MAS 4301 (or MHF 4102) or CI; CR: 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 3103 and 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 reciprocity, factorization and primality testing algorithms.
- MAS 5311 ALGEBRA I** (3)
PR: MAS 3103 and MAS 4301, or CI. Group theory: Sylow theorems; classification of groups of small order. Ring theory: ideals, quotient rings, polynomial rings, Euclidean domains, principal ideal domains and unique factorization.
- MAS 5312 ALGEBRA II** (3)
PR: MAS 5311 or CI. Continuation of MAS 5311. Finitely generated modules over a principal ideal domain, basic field theory, finite fields, Galois theory.
- MAT 2930 SELECTED TOPICS IN MATHEMATICS** (1-4)
PR: CI. The course content will depend on the interest of faculty members and student demand.
- MAT 4906 INDEPENDENT STUDY -6A** (1-4)
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.)
- MAT 4930 SELECTED TOPICS IN MATHEMATICS -6A** (1-4)
PR: CI. The course content will depend on the interest of faculty members and student demand.
- MAT 4937 MATHEMATICS MAJORS SEMINAR -6A** (1)
Directed discussions on a variety of topics of interest to math majors, including career opportunities in mathematics. May be repeated up to 2 credit hours. (S/U only.)
- MAT 4939 MATHEMATICS HONORS SEMINAR -6A** (1)
PR: Admission to Mathematics Honors Program or CC. Directed discussions on a variety of topics of mathematical interest. May be repeated up to 8 credit hours. (S/U only.)

- MAT 4970 MATHEMATICS SENIOR THESIS -6A** (3)
PR: Admission to Mathematics Honors Program and CC. Course restricted to mathematics majors. (S/U only.)
- MAT 5932 SELECTED TOPICS** (1-4)
PR: CI. Each course covers a single topic outside the usual curriculum.
- MGF 2130 MODERN MATHEMATICS WITH MICROCOMPUTERS -6A** (4)
PR: Passing score on placement test. Topics in finite math, real vs. computer number systems, inequalities, functions, graphs, introduction to BASIC programming and microcomputers, exact and approximate solutions of algebraic equations, probability, computer simulations of models.
- MGF 2202 FINITE MATHEMATICS -6A** (3)
PR: Passing score on placement test. Concepts and analytical skills in areas of logic, linear equations, linear programming, mathematics of finance, permutations and combinations, probability, and descriptive statistics.
- MHF 4102 LOGIC AND SET THEORY -6A** (3)
PR: MAC 3311 or MAC 3281, or CI. First half: An introduction to the Propositional and Predicate Calculi, concentrating on proofs. Second half: An introduction to naive set theory, up to cardinal numbers, concentrating on sets of numbers.
- MHF 4403 THE EARLY HISTORY OF MATHEMATICS** (3)
PR: MAC 3312. A study of the history and development of mathematics 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 set theory and the system ZFC; recursion theory and decidability.
- MHF 5405 HISTORY OF MODERN MATHEMATICS** (3)
PR: MAC 3313. 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: MAC 3311. Emphasis on axiomatics, advanced Euclidean geometry, elements of projective geometry, non-Euclidean geometries.
- MTG 5256 DIFFERENTIAL GEOMETRY** (3)
PR: MAA 4211, MAS 3103. Exterior calculus, differentiable manifolds, integration of differential forms, surfaces in 3-space, covariant derivative, curvature, matrix groups.
- MTG 5316 TOPOLOGY I** (3)
PR: MAA 4212. Topological spaces, continuity, homeomorphisms, connectedness, compact spaces, separation axioms, product spaces.
- MTG 5317 TOPOLOGY II** (3)
PR: MTG 5316. The fundamental group; elements of homotopy theory and homology theory.
- STA 3023 INTRODUCTORY STATISTICS I -6A** (4)
PR: Passing score on placement test. Hypothesis testing, estimation; normal, Chi-square, t, F, binomial, multinomial distributions; ANOVA, CR, RCB designs; single df, regression, correlation, contingency tables. Students who successfully complete this course may not also receive credit for QMB 2150 or STA 3122. (No credit for Mathematics Majors.)
- STA 3024 INTRODUCTORY STATISTICS II -6A** (3)
PR: STA 3023 or CC. Factorials, ANCOV; multiple curvilinear regression; response surfaces; Latin squares, Split Plots, incomplete designs; distribution free methods.
- STA 4321 INTRODUCTION TO STATISTICS -6A** (3)
PR: STA 4442. Basic statistical methods. Estimation, hypothesis testing, regression, ANOVA, and nonparametric methods.
- STA 4442 INTRODUCTION TO PROBABILITY -6A** (3)
PR: MAC 3313, MAS 4301. Introduction to probability theory using calculus. Basic ideas of probability and random variables, discrete probability functions, continuous probability densities including normal, gamma, χ (Greek letter Chi), and Weibull, and transformations of random variables.
- 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)
PR: STA 4321 or CI. Sampling versus total enumeration. Planning of a survey. Statistical sampling methods and their analysis; simple, stratified, systematic cluster, and double and multistage sampling. Use of auxiliary information in sampling. Ratio and regression estimates. Case study.
- STA 5326 MATHEMATICAL STATISTICS** (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 4212 or CI. Axioms of probability, random variables in Euclidean spaces, moments and moment generating functions, modes of convergence, limit theory for sums of independent random variables.
- STA 5526 NON-PARAMETRIC STATISTICS** (3)
PR: STA 5326, CC. Theory and methods of non-parametric statistics, order statistics, tolerance regions and their applications.

MEDICAL TECHNOLOGY

- MLS 3031 INTRODUCTION TO MEDICAL TECHNOLOGY** (1)
PR: Senior standing and acceptance into an approved affiliated hospital. An introduction to the principles and practices of medical technology and their relationship to patient care. A hospital internship course for medical technology majors.
- MLS 4860 CLINICAL MICROSCOPY I** (2)
PR: Senior standing and acceptance into an approved affiliated hospital. Lecture and laboratory instruction such as urinalysis, parasitology, and histological technique. A hospital internship course for medical technology majors.
- MLS 4861 CLINICAL MICROSCOPY II** (4)
PR: Senior standing and acceptance into an approved affiliated hospital. A continuation of MLS 4860. A hospital internship course for medical technology majors.
- MLS 4862 HEMATOLOGY** (6)
PR: Senior standing and acceptance into an approved affiliated hospital. Lecture and laboratory instruction in the methods of study of hematological disorders. A hospital internship course for medical technology majors.
- MLS 4863 CLINICAL BACTERIOLOGY** (6)
PR: Senior standing and acceptance into an approved affiliated hospital. Instruction in lecture and laboratory on the various aspects of morphology, physiology, and classification of bacteria, especially those related to disease. A hospital internship course for medical technology majors.
- MLS 4864 CLINICAL CHEMISTRY I** (6)
PR: Senior standing and acceptance into an approved affiliated hospital. Instruction in the techniques and procedures for use in clinical chemical analyses. A hospital internship course for medical technology majors.
- MLS 4865 CLINICAL CHEMISTRY II** (4)
PR: Senior standing and acceptance into an approved affiliated hospital. A continuation of MLS 4864, including procedures required for serology, transfusions, blood preservation, and antibody studies. A hospital internship course for medical technology majors.
- MLS 4866 CLINICAL LABORATORY INSTRUMENTAL ANALYTICAL TECHNIQUES** (1)
PR: Senior standing and acceptance into an approved affiliated hospital. Instruction in the use of special laboratory instruments such as automated instruments, use of radioisotopes, and techniques of measuring basal metabolism. A hospital internship course for medical technology majors.

MODERN LANGUAGES

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. 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.

ARA 1121 MODERN ARABIC II (4)

PR: 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.

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 Arabic 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.

ARA 4930 SELECTED TOPICS (1-5)

Course permits classes in Arabic not available in the 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.

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.

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 Chinese 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 hours.

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.

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.

FRE 1170 OVERSEAS STUDY-ELEM. FRENCH (4)

Elementary-level French taught in France. In lieu of FRE 1120 and FRE 1121. No credit toward a major or minor in French. May be repeated up to 8 credit hours.

FRE 2200 FRENCH III (3)

PR: FRE 1121 or equivalent. A review of the basic structure of French. May be taken concurrently with FRE 2201.

FRE 2201 FRENCH IV (3)

PR: FRE 1121 or equivalent. Readings in French on the intermediate level. May be taken concurrently with FRE 2200.

FRE 2241 CONVERSATION I (3)

PR: FRE 1121. For development of basic conversational skills.

FRE 2270 OVERSEAS STUDY-INTR. FRENCH (3-6)

Two semesters of university-level French or equivalent proficiency. At USF this equates to FRE 1120 (4 credits) plus FRE 1121 (4 credits) or FRE 1170. May be repeated up to 6 credit hours.

FRE 3230 READING IN FRENCH LITERATURE AND CULTURE (3)

PR: FRE 2201 or equivalent. This course is designed to build reading skills in French while giving students a broad background in culture which will serve them in all subsequent courses.

FRE 3240 CONVERSATION II (3)

PR: FRE 2241 or equivalent proficiency. Conversation practice with concentration on current idiomatic usage.

FRE 3420 COMPOSITION I (3)

A fundamental composition course for students who have completed FRE 2200 or FRE 2201.

FRE 3440 FRENCH FOR BUSINESS (3)

PR: FRE 1121 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. Prior approval and early registration 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.

FRE 4700 FRENCH LINGUISTICS (3)

PR: LIN 3010 and FRE 2201 or equivalent. An introduction to the phonological, morphological and static 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)
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)
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, Eluard, Apollinaire, Char, and others. Course content may vary from year to year.
- FRW 4310 CLASSICAL DRAMA** (3)
PR: FRW 4101. Corneille, Moliere, and Racine.
- FRW 5222 CLASSICAL PROSE AND POETRY** (3)
PR: FRW 4101. Emphasis on Malherbe, La Fontaine, Boileau, Descartes, and Pascal.
- FRW 5226 20TH CENTURY POETRY AND THEATRE** (3)
PR: FRW 4101. Valery, Claudel, Anouilh, Montherland, Sartre, Ionesco.
- FRW 5286 THE 20TH CENTURY NOVEL** (3)
PR: FRW 4100. Proust, Gide, Mauriac, Malraux, Camus, Robbe-Grillet.
- FRW 5415 LITERATURE OF THE MIDDLE AGES** (3)
PR: FRW 4100 or FRW 4101. Major genres, including epics, Arthurian romances, drama and lyric poetry. Reading in modern French translation.
- FRW 5425 LITERATURE OF THE RENAISSANCE** (3)
PR: FRW 4100 or FRW 4101. A study of Renaissance French humanism including Rabelais, Montaigne, and Pleiade poets.
- FRW 5445 18TH CENTURY LITERATURE** (3)
PR: FRW 4100. The classical tradition and the new currents of thought in the Age of Enlightenment.
- FRW 5528 PRE-ROMANTICISM** (3)
PR: FRW 4100 or FRW 4101. The precursors of romanticism. Emphasis on Rousseau, Bernardin de St. Pierre, Chenier, and Chateaubriand.
- FRW 5535 ROMANTICISM** (3)
PR: FRW 4101. A study of the romantic and early realistic movements with emphasis on Lamartine, Vigny, Musset, Hugo and Balzac.
- FRW 5556 REALISM AND NATURALISM** (3)
PR: FRW 4100 or FRW 4101. A detailed study of realism and naturalism with emphasis on Flaubert, Zola, les Goncourt, Maupassant, and Daudet.
- FRW 5934 SELECTED TOPICS** (1-3)
PR: Upper-level or graduate standing. Study of an author, movement or theme.

German

- GER 1120 BEGINNING GERMAN I** (4)
CR: GER 1120L. Development of basic skills in listening and reading comprehension, speaking and writing of German.
- GER 1120L BEGINNING GERMAN I LABORATORY** (1)
CR: GER 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.
- GER 1121 BEGINNING GERMAN II** (4)
PR: GER 1120 or equivalent. CR: GER 1121L. Continued development of basic skills in listening and reading comprehension, speaking and writing German.
- GER 1121L BEGINNING GERMAN II LABORATORY** (1)
CR: GER 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.

- GER 2200 GERMAN III** (3)
PR: GER 1121 or equivalent. A review of the basic structure of spoken and written German. May be taken concurrently with GER 2201.
- GER 2201 GERMAN IV** (3)
PR: GER 1121 or equivalent. Readings in German on the intermediate level. May be taken concurrently with GER 2200.
- GER 3244 CONVERSATION I** (3)
PR: GER 1121. For development of basic conversational skills.
- GER 3420 COMPOSITION I** (3)
A fundamental course for students who have completed GER 2200 or GER 2201.
- GER 3500 GERMAN CIVILIZATION** (3)
PR: GER 2200 or GER 2201. Readings in German on the cultural history of Germany.
- GER 4410 CONVERSATION II** (3)
Free conversation based on the current German idiom.
- GER 4421 COMPOSITION II** (3)
Practical training in modern German usage and differences of style.
- GER 5845 HISTORY OF THE GERMAN LANGUAGE** (3)
A diachronic approach to the study of the German language. The course traces the history and development of the language from Indo-European through Germanic, Old, Middle, and New High German.
- GEW 4100 SURVEY OF GERMAN LITERATURE I** (4)
Old High German and Middle High German literature in modern German translation; the literature of Humanism and Baroque, the classical period.
- GEW 4101 SURVEY OF GERMAN LITERATURE II** (4)
The romantic period, 19th and 20th centuries.
- GEW 4900 DIRECTED STUDY** (1-3)
Departmental approval required.
- GEW 4930 SELECTED TOPICS** (1-3)
Study of an author, movement or theme.
- GEW 5475 20TH CENTURY LITERATURE TO 1945** (3)
A study of major styles in German literature from 1900 to WW II with emphasis on Hauptmann, Schnitzler, Hofmannsthal, George Rilke, Kaiser, Heym, Trakl, Thomas Mann, Hesse, Kafka, Benn, Brecht.
- GEW 5489 20TH CENTURY LITERATURE: 1945 TO PRESENT** (3)
Study of major trends in German literature since WWII with emphasis on Borchert, Frisch, Durrenmatt, Boll, Uwe, Johnson, Grass, Aichinger, Eich Enzensberger, Bachmann.
- GEW 5515 THE ENLIGHTENMENT** (3)
Selected dramas and critical writings by Lessing, Wieland, Kant.
- GEW 5545 ROMANTICISM** (3)
Jenaer circle and Heidelberg circle; the late romantic period, the writers between Classicism and Romanticism.
- GEW 5555 REALISM** (3)
Selected works by Grillparzer, Grabbe, Buchner, Hebbel, Heine, Immerman, Stifter, Keller, Meyer, Storm, Raabe, Hulshoff, and Morike.
- GEW 5605 GOETHE** (3)
Selected novels, poems: Werther, Wahlverwandtschaften, Wilhelm Meister, Westostlicher Divan.
- GEW 5606 FAUST** (3)
Sources, form, content, and literary significance of Urfaust and Faust.
- GEW 5615 SCHILLER** (3)
Selected dramas, philosophical and aesthetical writings.
- GEW 5934 SELECTED TOPICS** (1-3)
PR: Upper-level or graduate standing. Study of an author, movement or theme.

Greek

- GRK 1120 BEGINNING MODERN GREEK I** (4)
CR: GRK 1120L. An intensive study of basic skills; pronunciation, 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 media. Concurrent enrollment with a lecture session is required, and, if dropped, then dropped simultaneously.

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.

GRK 2200 MODERN GREEK III (4)
PR: GRK 1121 or the equivalent. For language students who intend to attain basic proficiency.

GRK 2201 MODERN GREEK IV (4)
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 (1-5)
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.

GRK 4930 SELECTED TOPICS (1-5)
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 1120 MODERN HEBREW I (4)
CR: HBR 1120L. An intensive study of basic skills; pronunciation, listening comprehension, speaking and some composition.

HBR 1120L MODERN HEBREW I LABORATORY (1)
CR: HBR 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.

HBR 1121 MODERN HEBREW II (4)
PR: HBR 1120 or its equivalent; CR: HBR 1121L. A continuation of HBR 1120. An intensive study of basic skills; pronunciation, listening comprehension, speaking and some composition. More sophisticated oral/aural skills are attained. Basic reading skills are acquired.

HBR 1121L MODERN HEBREW II LABORATORY (1)
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.

HBR 2200 MODERN HEBREW III (4)
PR: HBR 1121 or the equivalent. For language students who intend to attain basic proficiency.

HBR 2201 MODERN HEBREW IV (4)
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 (1-5)
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.

HBR 4930 SELECTED TOPICS (1-5)
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 (4)
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 1120L BEGINNING ITALIAN LABORATORY (1)
CR: ITA 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.

ITA 1121 BEGINNING ITALIAN II (4)
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 (1)
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.

ITA 2200 INTERMEDIATE ITALIAN I (3)
PR: ITA 1121 or equivalent. Readings in Italian on the elementary level. A review of the basic structure of spoken and written Italian.

ITA 3240 ITALIAN CONVERSATION I (4)
To develop fluency and correctness in spoken Italian. Intensive study for conversational skill based particularly upon the current Italian idiom. Syntax is intensified and the vocabulary and idiomatic expressions expanded.

ITA 3420 COMPOSITION (3)
A fundamental composition course for students who have completed ITA 2200 and ITA 2201.

ITA 3470 OVERSEAS STUDY (1-6)
An intensive study-travel project in Italy. Prior approval and early registration required. May be repeated up to 12 credit hours.

ITA 4241 ITALIAN CONVERSATION II (4)
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.

ITW 4100 SURVEY OF ITALIAN LITERATURE I (4)
A survey of Italian literature from the earliest monuments through the classicism of the 18th century.

ITW 4101 SURVEY OF ITALIAN LITERATURE II (4)
A survey of Italian literature beginning with the Classicism of the 18th century and continuing to present.

ITW 4905 DIRECTED STUDY (1-3)
Departmental approval required.

Japanese

JPN 1120 MODERN JAPANESE I (4)
CR: JPN 1120L. An intensive study of basic skills: pronunciation, listening comprehension, speaking, and some composition.

JPN 1120L MODERN JAPANESE I LABORATORY (1)
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.

JPN 1121 MODERN JAPANESE II (4)
PR: JPN 1120 or equivalent. CR: JPN 1121L. A continuation of JPN 1120. More sophisticated oral/aural skills are attained. Basic reading skills are acquired.

JPN 1121L MODERN JAPANESE II LABORATORY (1)
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.

JPN 2200 MODERN JAPANESE III (3)
PR: JPN 1121 or equivalent. Continuing study to attain basic proficiency in Japanese.

JPN 2201 MODERN JAPANESE IV (3)
PR: JPN 2200 or equivalent. Continuation of JPN 2200. Practice of writing, speaking, and listening skills to attain basic proficiency.

JPN 4905 DIRECTED STUDY (1-5)
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.

JPN 4930 SELECTED TOPICS (1-5)
Course permits study options in Japanese not available in the regularly scheduled curriculum at departmental discretion. Departmental approval required. May be repeated up to 10 credit hours.

Polish

- POL 1120 BEGINNING POLISH I** (4)
CR: POL 1120L. This course features all four major skills: listening, reading, speaking, and writing. Grammar exercises, dictation, readings and vocabulary-building are central in this first course. Knowledge of Russian can help. S/U available.
- POL 1120L BEGINNING POLISH I LABORATORY** (1)
CR: POL 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.
- POL 1121 BEGINNING POLISH II** (4)
PR: POL 1120 or equivalent by examination. 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. S/U available.
- POL 1121L 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.
- POL 2200 POLISH III** (4)
PR: POL 1121 or the equivalent. For language students who intend to attain basic proficiency.
- POL 2201 POLISH IV** (4)
PR: POL 2200 or the equivalent. Continuation of POL 2200. Practice of writing, speaking and listening skills for language students who intend to attain basic proficiency.
- POL 4905 DIRECTED STUDY** (1-5)
Permits study options in Polish not available in regularly scheduled curriculum at departmental discretion. Departmental approval required. May be repeated up to 10 credit hours.
- POL 4930 SELECTED TOPICS** (1-5)
Course permits classes in Polish not available in the regularly scheduled curriculum at departmental discretion. Departmental approval required. May be repeated up to 10 credit hours.

Portuguese

- POR 1120 BEGINNING PORTUGUESE I** (4)
CR: POR 1120L. Development of basic skills in listening and reading comprehension, speaking and writing of Brazilian Portuguese.
- POR 1120L BEGINNING PORTUGUESE I 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.
- POR 1121 BEGINNING PORTUGUESE II** (4)
PR: POR 1120 or equivalent. CR: POR 1121L. Continued development of basic skills in listening and reading comprehension, speaking and writing of Brazilian Portuguese.
- POR 1121L BEGINNING PORTUGUESE II LABORATORY** (1)
CR: POR 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.
- POR 2200 INTERMEDIATE PORTUGUESE I** (3)
POR 2200 builds upon the four language skills (speaking, comprehension, reading, and writing) introduced in POR 1120 and POR 1121. It is available to all foreign language students and includes lab attendance of at least two hours per week. May not be repeated for credit.
- POR 2201 INTERMEDIATE PORTUGUESE II** (3)
For language students who intend to attain basic proficiency. There is a two-hour lab each week which can be taken in smaller segments. May not be repeated for extra credit.

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 1120L BEGINNING RUSSIAN I 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.

- RUS 1121 BEGINNING RUSSIAN II** (4)
PR: RUS 1120 or CI. 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 1121L 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.
- 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.
- RUS 4402 ADVANCED RUSSIAN CONVERSATION & COMPOSITION I** (4)
PR: RUS 4241 or CI. Third year Russian.
- RUS 4403 ADVANCED RUSSIAN CONVERSATION & COMPOSITION II** (4)
PR: RUS 4241 or CI. 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 CI. 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** (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** (3)
Masterpieces of 20th century Soviet literature in English. The major works of Bely, Olesha, Babel, Zamyatin, Bulgakov, Pasternak, and Solzhenitzyn. Elective for all students in all departments.

Spanish

- SPN 1120 BEGINNING SPANISH I** (4)
CR: SPN 1120L. Development of basic skills in listening and reading comprehension, speaking and writing of Spanish.
- SPN 1120L 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.

- SPN 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.
- SPN 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.
- SPN 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.
- SPN 2200 SPANISH III** (3)
PR: SPN 1121 or equivalent. A review of the basic structure of spoken and written Spanish. May be taken concurrently with SPN 2201.
- SPN 2201 SPANISH IV** (3)
PR: SPN 1121 or equivalent. Readings in Spanish on the intermediate level. May be taken concurrently with SPN 2200.
- SPN 2240 CONVERSATION I** (3)
PR: SPN 1121. For development of basic conversational skills.
- SPN 2440 SPANISH FOR BUSINESS** (3)
PR: SPN 2201 or equivalent. An introduction to the Spanish language as used in undertaking ordinary business transactions.
- SPN 3241 CONVERSATION II** (3)
PR: SPN 2240 or equivalent. To improve fluency in spoken Spanish.
- SPN 3300 COMPOSITION** (3)
PR: SPN 2200-2201. A study of syntax, grammar and writing.
- SPN 3470 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.
- SPN 3500 SPANISH CIVILIZATION** (3)
PR: SPN 1121. The culture and civilization of Spain.
- SPN 3520 SPANISH AMERICAN CIVILIZATION** (3)
Readings and discussions on the culture and civilization of Spanish America. For majors and non-majors.
- SPN 4301 EXPOSITORY WRITING** (3)
PR: SPN 3300. Practical training in contemporary Spanish structure, usage and stylistic devices.
- SPN 4410 ADVANCED CONVERSATION** (3)
PR: SPN 3241 or equivalent. Intensive practice in the formulation and expression of ideas in standard Spanish.
- SPN 4470 ADVANCED OVERSEAS STUDY** (1-6)
PR: SPN 3470. Intensive language study in Spain. Departmental approval required.
- SPN 4700 SPANISH LINGUISTICS** (3)
PR: LIN 3010 or equivalent (may be taken concurrently with CI) and SPN 2201 or equivalent. An introduction to Hispanic linguistics: Phonology, morphology, syntax, and lexicography.
- SPN 5525 MODERN SPANISH AMERICAN CIVILIZATION** (3)
PR: SPN 3520 or equivalent or graduate standing. Advanced readings and discussions dealing with Spanish American civilization and culture, including a study of social, artistic and political trends, from Colonial Times to the present. Texts and discussions in Spanish.
- SPN 5567 MODERN SPANISH CIVILIZATION** (3)
PR: SPN 3500 or equivalent or graduate standing. Advanced readings and discussions dealing with contemporary Spanish civilization and culture, including a study of recent social, artistic and political trends. Texts and discussions in Spanish.
- SPT 2525 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 in Women's Studies.)
- SPW 3030 INTRODUCTION TO HISPANIC LITERATURE** (3)
PR: SPN 2201 or equivalent. Prose fiction, drama, poetry, and essay; techniques of literary analysis.
- SPW 4100 SURVEY OF SPANISH LITERATURE I** (3)
PR: SPW 3030 or equivalent. A study of Spanish literature from its origins through the 17th century.
- SPW 4101 SURVEY OF SPANISH LITERATURE II** (3)
PR: SPW 3030 or equivalent. A study of the later periods of Spanish literature.
- SPW 4131 SURVEY OF SPANISH-AMERICAN LITERATURE** (3)
PR: SPW 3030 or equivalent. An introduction to the study of Spanish-American literature from the Modernism period to the present. Emphasis on modern writers since Dario.
- SPW 4900 DIRECTED STUDY** (1-3)
Departmental approval required.
- SPW 4930 SELECTED TOPICS** (1-3)
Study of an author, movement or theme.
- SPW 5135 COLONIAL SPANISH AMERICAN LITERATURE** (3)
PR: SPW 4131. An introduction to Colonial Spanish American Literature from the Discovery through the Romantic Period.
- SPW 5355 SPANISH AMERICAN DRAMA & POETRY** (3)
PR: SPW 4131. Major writers of all genres. Emphasis on modern writers.
- SPW 5387 SPANISH AMERICAN PROSE** (3)
PR: SPW 4131. Emphasis on the gaucho theme and contemporary prose fiction.
- SPW 5388 GOLDEN AGE POETRY AND DRAMA** (3)
PR: SPW 4100. Lope de Vega, Alarcon, Tirso, Calderon, and others.
- SPW 5405 MEDIEVAL LITERATURE** (3)
PR: SPW 4100 or equivalent. Course gives an in-depth study of principal works and authors of the period such as *El Poema de Mio Cid*, *Libro de Buen Amor* and *La Celestina*.
- SPW 5465 19TH CENTURY LITERATURE** (3)
PR: SPW 4101. Poetry and drama of the first half of the 19th century.
- SPW 5605 CERVANTES** (3)
Cervantes' masterpiece *Don Quijote de la Mancha*.
- SPW 5726 VANGUARD LITERATURE OF 1918 AND 1936** (3)
PR: SPW 4101. A study of vanguard literature in Spain between 1918 and 1936.
- SPW 5934 SELECTED TOPICS** (3)
PR: Upper-level or graduate standing. Study of an author, movement or theme.
- Yoruba**
- YOR 1120 YORUBA I** (4)
This course is designed to familiarize students with modern 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** (4)
A continuation of YOR 1120, this course delves further into the structure of Yoruba and its grammatical functions. Also covered 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.
- PHILOSOPHY**
- PHH 3000 INTRODUCTION TO PHILOSOPHY-6A** (3)
An introduction to selected philosophical problems and traditions.
- PHH 3062 HISTORY OF PHILOSOPHY: ANCIENT AND MEDIEVAL** (3)
A survey of Western philosophy from the pre-Socratics to the end of the Middle Ages.
- PHH 3420 HISTORY OF PHILOSOPHY: MODERN** (3)
A survey of Western philosophy from the end of the Middle Ages to the nineteenth century.
- PHH 4440 CONTINENTAL PHILOSOPHY** (3)
A study of developments in post-Kantian European philosophy.
- PHH 4600 CONTEMPORARY PHILOSOPHY-6A** (3)
Selected schools of twentieth century thought such as idealism, positivism, pragmatism, realism, and existentialism.
- PHH 4700 AMERICAN PHILOSOPHY-6A** (3)
Major traditions in American thought, Puritanism, the Enlightenment, Transcendentalism, Idealism, Pragmatism, and Analytic Philosophy in relation to American culture.
- PHI 1000 GREAT PHILOSOPHERS OF THE WESTERN WORLD** (2)
Lectures and discussions of the great philosophers since Plato,

- focusing on particular problems.
- PHI 1010 PHILOSOPHIC CONTROVERSIES** (2)
A discussion of central controversies in philosophy such as the nature of love, violence, freedom, truth, morality, etc.
- PHI 1103 CRITICAL THINKING** (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** (3)
An elementary study of propositional, predicate, class and syllogistic logic with some attention to basic problems of logical theory.
- PHI 3404 SCIENTIFIC METHOD** (3)
Probability, inductive inference, the hypothetico-deductive method, experimentation, and selected topics in the philosophy of science.
- PHI 3600 ETHICAL THEORY** (3)
A study of ethical theories, concepts, problems and methods.
- PHI 3601 CONTEMPORARY MORAL ISSUES** (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 3631 ETHICS AND BUSINESS** (3)
An application of traditional ethical theories to contemporary problems in business.
- 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** (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** (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: C.I. Selected topics according to the needs of the student.
- PHI 4074 AFRICAN PHILOSOPHY** (3)
A descriptive and analytical study of African philosophical thought, featuring reflective comparisons of African and Western categories of thought. (May also be taken in African Studies.)
- PHI 4300 THEORY OF KNOWLEDGE -6A** (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** (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 4632 FEMINIST ETHICS** (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** (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** (3)
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 semantical, 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 3021 PHILOSOPHIES OF LOVE AND SEX** (3)
Discussion of Philosophies of Love/Sex of Plato, Aristotle, Epicurus, Aquinas, Hume, Kant, Schopenhauer, Russell, Sartre, Marx, etc.
- PHM 3100 SOCIAL PHILOSOPHY -6A** (3)
An analysis of rival theories of social order and their philosophical foundations.
- PHM 3400 INTRODUCTION TO PHILOSOPHY OF LAW** (3)
A study of the fundamental concepts of law from a philosophic standpoint including crime, justice, punishment, free speech, insanity, etc.
- PHM 4322 ANCIENT AND MEDIEVAL POLITICAL PHILOSOPHY -6A** (3)
A survey of political philosophy from 6 B.C. until 1600 A.D., including an examination of the ethical, metaphysical, and epistemological bases of these philosophies.
- PHM 4331 MODERN POLITICAL PHILOSOPHY -6A** (3)
A survey of political philosophy from 1600 A.D. until 1900 A.D., including an examination of the ethical, metaphysical, and epistemological bases of these philosophies.
- PHM 4340 CONTEMPORARY POLITICAL PHILOSOPHY -6A** (3)
A survey of political philosophy in the twentieth century, including an examination of the ethical, metaphysical and epistemological bases of these philosophies.
- 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 Women's Studies.
- PHP 3786 EXISTENTIALISM -6A** (3)
A study of the religious and atheistic existentialists and the bearing of their views on religion, ethics, metaphysics, and theory of knowledge.
- PHP 4000 PLATO -6A** (3)
The examination of Plato will include the dialogues Protagoras, Georgias, Meno, Republic, etc.
- PHP 4010 ARISTOTLE -6A** (3)
Study of Aristotle's philosophy.
- PHP 4410 KANT** (3)
Lecture and discussion of Kant's philosophy, especially The Critique of Pure Reason.
- PHP 4740 RATIONALISM -6A** (3)
A careful study of the epistemologies of Descartes, Spinoza, Leibniz, and Malebranche.
- PHP 4745 EMPIRICISM -6A** (3)
A careful study of epistemologies of Locke, Berkeley, Hume, and Thomas Reid.
- PHP 4784 ANALYTICAL PHILOSOPHY -6A** (3)
A study of the method devoted to clarifying philosophical problems through analysis of the language in which these problems are stated.
- PHP 4788 PHILOSOPHY OF MARXISM -6A** (3)
A critical survey of Marxist philosophy from Marx and Engels to Mao Tse-Tung and Herbert Marcuse. Hegelian foundations of Marxist philosophy analyzed in detail.

PHYSICS

PHY 2020 CONCEPTUAL PHYSICS (3)
A qualitative, non-mathematical investigation of physics, emphasizing its influence on life today. (No credit for physics B.S. major credit; no credit for mathematics majors.)

PHY 2038 ENERGY AND HUMANITY (3)
Social, economic, and political aspects of energy. Includes energy conservation, environmental impact, energy-source alternatives, changing lifestyles, and personal use of solar energy, and changing life styles. The relevant basic laws of physics and the scientific method are emphasized. Field trips and audiovisual presentations play important roles.

PHY 3048, 3048L GENERAL PHYSICS AND LABORATORY (3, 1)
PR: MAC 3281 or MAC 3311. 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.

PHY 3049, 3049L GENERAL PHYSICS AND LABORATORY (3, 1)
PR: MAC 3282 or MAC 3312, PHY 3048, PHY 3048L. Second semester of general physics and laboratory for physics majors and engineering students. Must be taken concurrently and, if dropped, then dropped simultaneously.

PHY 3053, 3053L GENERAL PHYSICS AND LABORATORY (3, 1)
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.

PHY 3054, 3054L GENERAL PHYSICS AND LABORATORY (3, 1)
PR: PHY 3053, PHY 3053L. Second semester of general physics and lab for science students. Must be taken concurrently and, if dropped, then dropped simultaneously.

PHY 3101 MODERN PHYSICS (3)
PR: PHY 3049 or CR: PHZ 3101; PR: MAC 3283 or MAC 3313. Special relativity. Interaction and duality of particles and radiation. Atomic and x-ray spectra and Bohr model of atom. Schrodinger wave equation. Introduction to solid state physics.

PHY 3221 MECHANICS I (3)
CR: MAC 3283 or MAC 3313 and either PR: PHY 3048 or PHZ 3101. 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 3049, MAC 3283 OR MAC 3313. 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 3101 or PHY 3049; CR: MAC 3283 or MAC 3313. Reflection, refraction, dispersion, interference, diffraction, polarization, and laboratory.

PHY 3822L INTERMEDIATE LABORATORY (2)
PR: PHZ 3101 or PHY 3049 or equivalent; CR: PHY 3101 Experiments in modern physics, including the area of atomic, nuclear, solid state and wave phenomena.

PHY 4222 MECHANICS II (3)
PR: PHY 3221; CR: MAP 4302. 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 4302. 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 4471 FUNDAMENTAL ACOUSTICS (3)
PR: PHY 3221 or CI. Vibrations of elastic media, sound generation and propagation. Acoustical, electrical, and mechanical energy conversion. Underwater acoustics.

PHY 4523 STATISTICAL PHYSICS (3)
CR: PHY 3101. Statistical approach to thermodynamics and kinetic theory and introduction to statistical mechanics.

PHY 4604 QUANTUM MECHANICS I (3)
PR: PHY 3101, PHY 4222, or CI. Postulates, Schrodinger's equation, one dimensional problems, matrix mechanics, uncertainty principle, angular momentum, and central forces. First semester of sequence PHY 4604, PHY 5624.

PHY 4744C INTRODUCTION TO ELECTRONICS AND TEST INSTRUMENTATION (3)
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, etc.) (Not for major credit).

PHY 4823L ADVANCED LABORATORY (2)
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 4905 INDEPENDENT STUDY (1-3)
PR: CI. Specialized, independent study determined by the student's need and interest. The written contract required by the College of Arts and Sciences specifies the regulations governing independent study. May be repeated. (S/U only.)

PHY 4910 UNDERGRADUATE RESEARCH (1-4)
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 (1)
PR: Senior or advanced junior standing or CC. All undergraduate physics majors must enroll in this course at least once and are expected to attend all Physics Colloquia. (S/U only.)

PHY 4936 SELECTED TOPICS IN PHYSICS (1-4)
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 5624 QUANTUM MECHANICS II (3)
PR: PHY 4604 or CI. Symmetries, identical particles, scattering approximation methods, Dirac equation, field quantizations.

PHY 5720C ELECTRONICS FOR RESEARCH (4)
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 (1-4)
PR: Senior or advanced standing and CC. Each topic is a course in directed study under the supervision of a faculty member.

PHZ 3101 MATHEMATICAL ANALYSIS OF PROBLEMS IN MECHANICS AND ELECTRICITY (2)

PR: One year of non-calculus general physics. CR: MAC 3283 or MAC 3313. Designed for students who have not had the general physics sequence using calculus. Review of mechanics and electricity emphasizing problems which involve the use of calculus.

PHZ 3102 PROBLEMS IN GENERAL PHYSICS I (1)
CR: PHY 3048. First semester of two semester sequence of general physics problems. A course designed to allow those interested students to investigate problems not covered in the general physics course.

PHZ 3103 PROBLEMS IN GENERAL PHYSICS II (1)
CR: PHY 3049. Second semester of sequence PHZ 3102, PHZ 3103.

PHZ 5115 METHODS OF THEORETICAL PHYSICS I (3)
PR: MAP 4302 or CI. Applications of mathematical techniques to classical and modern physics. Vector spaces including Hilbert space, orthogonal functions, generalized functions, Fourier analysis, transform calculus, and variational calculus.

PHZ 5116 METHODS OF THEORETICAL PHYSICS II (3)
PR: MAP 4302 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 (3)
PR: PHY 4604 or CI. Nuclear forces, nuclear models, nuclear structure, decay, nuclear reaction, and high energy physics.

PHZ 5405 SOLID STATE PHYSICS I (3)
PR: PHY 3101, MAP 4302. Crystal structure, x-ray and electron

diffraction, mechanical and thermal properties of solids, electrical and magnetic properties of metals, band theory of metals, insulators, and semiconductors. First semester of sequence PHZ 5405, PHZ 6426.

PHZ 5505 PLASMA PHYSICS I (3)

PR: PHY 4324C or CI. Introduction to Boltzmann, magnetohydrodynamic and orbit approaches to plasmas. Longitudinal and electromagnetic waves in plasmas. Collisions and radiation. Instabilities.

POLITICAL SCIENCE

CPO 3002 INTRODUCTION TO COMPARATIVE POLITICS (3)

Comparison and analysis of representative European and non-Western political systems.

CPO 4034 POLITICS OF THE DEVELOPING AREAS (3)

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 (3)

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 (3)

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 3002 INTRODUCTION TO INTERNATIONAL RELATIONS (3)

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 (3)

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 (3)

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 4334 DEFENSE POLICY (3)

Analytic institutional factors contributing to formulation of defense policy and the impact of such policy on international relations.

INR 4403 INTERNATIONAL LAW (3)

Examines essential components of the international legal system; recognition; succession; sea, air and space law, treaties, diplomats, International Court of Justice; laws of war, etc. Introduces the student to legal reasoning as employed in the international context.

INR 4502 INTERNATIONAL ORGANIZATIONS (3)

Study of the operations and structure of international organizations and effects on world politics; background and achievement of the UN; regional organizations and multi-national corporations.

INR 5086 ISSUES IN INTERNATIONAL RELATIONS (3)

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 (3)

Analysis of basic principles and procedures of the American governmental system with emphasis on current issues and trends.

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 3142 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 3145 GOVERNING 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 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 powers; 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, relations with governmental and nongovernmental 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 (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 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 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 contributions and understanding contemporary political problems and solutions.

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 4323 WOMEN AND POLITICS (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, psychology major or CI. The study of the evolution 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 (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, psychology major 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, psychology major 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, psychology major 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 3103 CHILD PSYCHOLOGY (3)
Developmental and psychosocial aspects of childhood, including hereditary, maturational, 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, psychology major or CI. Survey of methods, empirical findings, and theoretical interpretations in the study of human development.

DEP 4135 PSYCHOLOGY OF LANGUAGE DEVELOPMENT (3)
PR: PSY 3213 with a grade of C or better, psychology major or CI. Available both to majors and non-majors. Surveys the course of and processes underlying normal language development. Presents data and theory on phonological, semantic, syntactic, and pragmatic development.

EXP 4104 SENSORY PROCESSES (3)
PR: PSY 3213 with a grade of C or better, psychology major or CI. Available to both majors and non-majors. Psychophysical and neurophysiological data and theory underlying sensory processes. Visual, auditory, chemical, and somatosensory systems, with particular emphasis on visual processes.

EXP 4204C PERCEPTION (3)
PR: PSY 3213 with a grade of C or better, psychology major or CI. Topics include sensory and physiological bases of perception and how people process relevant information in their environments.

EXP 4304 MOTIVATION (3)
PR: PSY 3213 with a grade of C or better, psychology major or CI. An examination of human and animal motivations from both physiological and psychological viewpoints.

EXP 4404 PSYCHOLOGY OF LEARNING (3)
PR: PSY 3213 with a grade of C or better, psychology major or CI. Survey of methods, empirical findings, and theoretical interpretations in conditioning and instrumental learning.

EXP 4523C COGNITIVE PSYCHOLOGY (3)
PR: PSY 3213 with a grade of C or better, psychology major or CI. Survey of methods, empirical findings, and theoretical interpretations of human learning, information processing, verbal learning, and judgment and decision-making.

INP 3101 APPLIED PSYCHOLOGY (3)
The application of psychological principles and the functions of psychologist in education, government, industry, and clinical practice.

INP 4004 INDUSTRIAL PSYCHOLOGY (3)
PR: PSY 3213 with a grade of C or better, psychology major or CI. Applications of psychological principles to industry. Topics include: selection, training, motivation, job satisfaction, supervision, decision-making.

PPE 4004 PERSONALITY (3)
PR: PSY 3213 with a grade of C or better, psychology major or CI. Methods and findings of personality theories and an evaluation of constitutional, biosocial, and psychological determinants of personality.

PSB 4013C NEUROPSYCHOLOGY (3)
PR: PSY 3213 with a grade of C or better, psychology major or CI. Gross neural and physiological components of behavior. Structure and function of the central nervous system and theory of brain functions.

PSY 2012 AN INTRODUCTION TO CONTEMPORARY PSYCHOLOGY (3)
A broad survey of psychology for both majors and non-majors with special emphasis on the more applied areas of psychology (e.g., social psychology, abnormal psychology, personality, and developmental psychology.)

PSY 3022 CONTEMPORARY PROBLEMS IN PSYCHOLOGY (3)
The content of this course varies depending on the needs and interest of students and faculty. Offerings include in-depth

coverage of specialized aspects of psychology applied to contemporary problems not studied in general introductory courses.

PSY 3044 EXPERIMENTAL PSYCHOLOGY (3)

PR: PSY 2012, psychology major or CI. Designed as an in-depth examination of the basic principles and concepts of psychological science. Extensive coverage will be given to the areas of learning, perception, physiological psychology, and cognition.

PSY 3213 RESEARCH METHODS IN PSYCHOLOGY (4)

PR: PSY 3044, psychology major, or CI. This course considers the logic of experimental design, concept of control 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, psychology major, 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 SYSTEMATIC PSYCHOLOGY (3)

PR: PSY 3213 with a grade of C or better, psychology major 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. Graduate-type seminar designed to provide honors students with an opportunity to present, discuss, and defend their own research and to explore in-depth topics in several areas of psychology. May be repeated with a maximum of 6 hours 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 (3)

An examination of theories of female personality in historical perspective. 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, psychology major 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 4714 ENVIRONMENTAL PSYCHOLOGY (3)

PR: PSY 2012 or PSY 3044, psychology major 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 (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 4204 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 COUNSELING

EGC 3060 REHABILITATION COUNSELING: CONCEPTS AND APPLICATIONS (3)

This introductory course (1) surveys the theories, concepts, and attitudes involved in helping disabled or unabled persons become increasingly able. (2) provides initial experiences with these counseling perspectives and methods and their personal application.

EGC 5065 FOUNDATIONS AND ETHICS (4)

An overview of rehabilitation history and introduction to rehabilitation processes and ethical issues in the public and private sectors. Ethical, legal, and professional standards in rehabilitation and mental health counseling are emphasized.

EGC 5376 MEDICAL ASPECTS OF DISABILITY (4)

PR: EGC 5065 or CI. 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.

EGC 5493 SEMINAR I: HUMAN DEVELOPMENT THEORY IN COUNSELING (3)

PR: EGC 5065, EGC 5725 or CI. Human development theory as applied in psychotherapy and case management in mental health, addictions, and other rehabilitation settings. Must be taken concurrently with EGC 5850. (S/U Only.)

EGC 5496 THEORETICAL ISSUES IN APPLIED ALCOHOL ABUSE IN REHABILITATION COUNSELING (4)

PR: CI. An informational approach to alcohol abuse. Explores the extent and rate of abuse in the United States, causes of alcoholism, biology of alcoholism, psychosocial aspects, legal aspects, and treatment.

EGC 5725 INTERPERSONAL COUNSELING I: PERSONALITY THEORY (4)

PR: CI. Focuses on the utilization of one's self in rehabilitation and mental health counseling relationships. Emphasis on the experiential exploration and development of interpersonal skills within the context of personality theories.

EGC 5850 PRACTICUM I (1)

PR: EGC 5065, EGC 5725 or CI. Supervised experience and participation in counseling in a variety of rehabilitation settings for a minimum of 120 hours. Must be taken concurrently with EGC 5493. (S/U Only.)

EGC 5905 DIRECTED STUDIES (1-4)

PR: CI. Supervised rehabilitation studies relevant to student's

professional development. May be repeated for a maximum of 8 hours credit.

RELIGIOUS STUDIES

GRE 3040 NEW TESTAMENT GREEK I (3)

An introduction to an intensive study of the koine Greek of the New Testament, for beginners; New Testament readings, composition, analysis of the structure of Greek of the New Testament.

GRE 3041 NEW TESTAMENT GREEK II (3)

PR: GRE 3040. Intermediate readings and grammar of the Greek New Testament.

REL 2300 INTRODUCTION TO WORLD RELIGIONS -6A (3)

Belief structures and behaviors of native American religions, Hinduism, Buddhism, Chinese religions, Judaism, Christianity and Islam, examined in films and in the reading of core religious texts.

REL 3003 INTRODUCTION TO RELIGION (3)

This course examines the phenomenon of religion to answer the question: Religion, what is it? Religious thought (mythology and theology) and religious behavior (ritual and morality) are closely examined.

REL 3120 RELIGION IN AMERICA (3)

To examine the movement from state church to pluralism in American religious institutions; the religious results of non-Protestant immigration; the Jewish factor; the effect of home missions and social concern programs upon American life; political entanglements and the concept of church/state separation.

REL 3131 NEW RELIGIONS IN AMERICA (3)

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 (3)

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 (3)

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 3170 RELIGION, ETHICS AND SOCIETY -6A (4)

An ethical analysis of contemporary social issues through 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 3210 HEBREW BIBLE/OLD TESTAMENT (4)

An introduction to the critical study of the Hebrew Scriptures against the background of the ancient Near East, with attention to the history and religion of the Hebrew people. REL 3210 and REL 4221 may not both be credited toward the major.

REL 3240 INTRODUCTION TO THE NEW TESTAMENT (3)

An introduction to the critical study of the New Testament in context of Christian beginnings in the first century A.D. REL 3240 and REL 4244 may not both be credited toward the major.

REL 3280 BIBLICAL ARCHAEOLOGY (3)

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 3310 WORLD RELIGIONS (5)

An introduction to and a comparison of the ideas, the literature and institutions of the major religions of the world including Judaism, Christianity, Islam from the Near East and Hinduism, Taoism, Confucianism, and Buddhism from the Far East. General comparison of Western and Eastern beliefs.

REL 3330 THE RELIGIONS OF INDIA (3)

All religions of the world came to India and all became Indian. What is this "Indianness" which stems from Hinduism, Buddhism, Jainism and Sikhism, but extended itself to include Judaism, Christianity, Islam, Zoroastrianism and Baha'i. Readings from

classical texts and modern literature.

REL 3350 RELIGIONS OF CHINA AND JAPAN (3)

This course will investigate the philosophy of ancient China and its two major interpreters, Lao Tzu and Confucius. It will also look at the native Japanese Shinto religion.

REL 3420 CONTEMPORARY RELIGIOUS THOUGHT (3)

An examination of the central ideas of recent theological thinkers; such men as Barth, Brunner, Bultmann, Bonhoeffer, Rahner, Tillich, Cox, Altizer, Buber, Niebuhr.

REL 3500 HISTORY OF CHRISTIANITY (4)

The historical development of Christianity, its ideas and institutions, from the first century to the rise of religious modernism in the 19th century.

REL 3600 INTRODUCTION TO JUDAISM -6A (3)

An introduction to Judaism: its religious tenets; its codes of ethics; its rites and customs. This course is intended as a description of what it means to be a Jew.

REL 3602 CLASSICS OF JUDAISM -6A (3)

PR: One course in Religious Studies. How to read the principal documents of Judaism beyond the Old Testament, particularly the Mishnah, Talmuds, and Midrash.

REL 3611 HISTORY OF JUDAISM I (3)

A study of the evolution of the religion of ancient Israel from the Exodus to the end of the second century of our era, seen against the background of its historical, geographical, political, social and spiritual setting.

REL 3612 HISTORY OF JUDAISM II (3)

A study of the history of Judaism and the Jews from the third century of our era through the Middle Ages to the Emancipation in the 19th century. Taking History of Judaism I first is advantageous.

REL 3613 MODERN JUDAISM (2)

A study of Jewish life in the West since 1789, emphasizing Jewish beliefs, practices, and institutions.

REL 3900 DIRECTED READINGS (1-4)

PR: Cl. Individual guidance in concentrated reading on a selected topic.

REL 3921 COLLOQUIUM (1)

This colloquium will be held at least 3 times each semester 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 (1-4)

PR: Cl. Course contents depend on students' needs.

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 4162 RELIGION, SCIENCE AND SOCIETY (3)

This course will explore the religious roots of science and the history of its emancipation. Special emphasis will be given to the interaction of religion and science in contemporary society.

REL 4171 CONTEMPORARY CHRISTIAN ETHICS -6A (3)

PR: Jr. standing or Cl. 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 4221 HEBREW BIBLE I/OLD TESTAMENT-LAW AND HISTORY (4)

An examination of the Pentateuch (Torah) from the point of view of its literary development, religious traditions, historical background, law, covenant theology, and the history of the religion of Israel.

REL 4224 HEBREW BIBLE II/PROPHETS AND WRITINGS (4)

PR: REL 3210 or REL 4221 or Cl. 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 4244 NEW TESTAMENT I: GOSPELS, ACTS** (4)
An exploration of the Gospels and Acts, including their backgrounds in Judaism and pagan religion, literary and form criticism, historical Jesus research, and the social history of earliest Christianity.
- REL 4250 JESUS' LIFE AND TEACHINGS** (4)
PR: Cl. 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 Cl. 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, philosophical 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 4670 JUDAISM AND CHRISTIANITY AFTER THE HOLOCAUST-6A** (4)
This course will explore the impact of the Holocaust on Jewish and Christian thought and identity in the light of the history of religious and cultural anti-semitism in Western civilization.
- REL 4910 UNDERGRADUATE RESEARCH** (1-4)
PR: Junior standing and Cl. Individual investigations with faculty supervision.
- REL 4931 SEMINAR IN RELIGION** (3)
A course designed for persons, especially Religious Studies majors, whose prior religious studies have prepared them for a cooperative creative and/or research effort in the area of religion.
- REL 4936 SELECTED TOPICS** (1-4)
PR: Junior standing and Cl. Individual investigations with faculty supervision.
- REL 4939 THE DEVELOPMENT OF RELIGIOUS STUDIES** (3)
Course designed for senior majors (and minors) in religious studies to complement REL 4931 (Senior Seminar). Discussion of key figures and methodological advances in the development of the field from the 18th century to present, with readings of classics in the development.
- WST 5318 FEMINIST SPIRITUALITY** (3)
This course will focus on the many voices of contemporary feminist spirituality, emerging from women's experiences in diverse religious, ethnic and cultural traditions, and representing a range of theoretical perspectives from biblical feminism to goddess worship and wicca. May not be repeated.
- Ancient Studies Sequence**
- CLA 3000 ANCIENT CIVILIZATIONS** (4)
Study of the character, ideas, and cultural achievements of the

peoples of the Ancient Middle East and Mediterranean and their relevance for modern Western civilization.

- CLA 3801 HISTORY OF THE ALPHABET** (2)
Study, in reasonable detail, of the evolution of our "Roman" alphabet, as well as of other ancient and modern alphabets, from the writing system of ancient Egypt.

- CLA 4160 EGYPTIAN CIVILIZATION** (3)
Study of the Ancient Egyptian civilization, including customs, religion, art and architecture, language and literature, science and the calendar, and an introduction to hieroglyphic writing. (Alternate years.)

- CLA 4171 MESOPOTAMIAN CIVILIZATION** (3)
Study of the Ancient Mesopotamian (Sumero-Babylonian) civilization, including customs, religion, art and architecture, languages and literatures, science and the calendar, and an introduction to cuneiform writing.

- CLA 4900 DIRECTED READINGS** (1-4)
PR: Consent of coordinator prior to registration. Readings in special topics chosen by the student in cooperation with the instructor. Reading of literature also possible in English translation.

- CLA 4930 SELECTED TOPICS** (1-4)
Course contents depend on student demand and instructor's interest and may range over the whole field of Ancient languages, literatures, and civilizations. Offerings on a semi-regular basis include Tongues of the Bible (2), and The Bible as History (3).

- HEB 1120, 1121 BASIC HEBREW I, II** (4,4)
Designed to give students a working knowledge of Classical (Biblical) Hebrew and to introduce them to the Biblical literature in the original language.

NOTE: In any of the numbers CLA 4900, CLA 4930, enrollment is repeatable for different subject matters.

SOCIAL WORK

- SOW 3101 HUMAN BEHAVIOR AND THE SOCIAL ENVIRONMENT I (3)**
PR: All pre-core courses. Restricted to Social Work majors, others by School permission. An integrating human behavior-social environment course emphasizing dynamics of behavior and environmental factors as they relate to social work practice with individuals, and families and groups.

- SOW 3102 HUMAN BEHAVIOR AND THE SOCIAL ENVIRONMENT II** (3)
PR: SOW 3101. 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 organizations and communities.

- SOW 3203 THE AMERICAN SOCIAL WELFARE SYSTEM** (2)
An introductory course tracing the development of the American social welfare system.

- 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: All pre-core courses. 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 4233 SOCIAL WELFARE: POLICY & PROGRAM** (4)
PR: All pre-core courses and SOW 3203. Restricted to Social Work majors, others by School permission. An advanced policy course taking an analytical approach to contemporary social welfare policy issues and current social welfare programs.

- SOW 4341 MULTI-METHODS OF SOCIAL WORK PRACTICE I: MICRO-SYSTEM INTERVENTION** (5)
PR or CR: SOW 3101; SOW 3401. 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 4343 MULTI-METHODS OF SOCIAL WORK**PRACTICE II: MACRO-SYSTEM INTERVENTION (5)**

PR: All pre-core courses, SOW 4341; SOW 4233, and SOW 3102 may be taken as PR or CR. 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 FIELD PLACEMENT (10)

PR: Completion of all social work core courses except SOW 4522. 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 and 4 hours per week in an integrated practice seminar which constitutes the third and final course in the practice sequence.

SOW 4522 SENIOR SEMINAR (2)

PR: All pre-core courses; all core Social Work courses, except that SOW 4510 may be taken as CR. This course is the final course taken in the BSW curriculum. It is restricted to Social Work majors in their final stages of the senior year. The course serves as a means for assisting the student in synthesizing and integrating his/her learning experiences in the BSW program.

SOW 4900 DIRECTED READINGS (1-6)

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 6 credit hours.

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 FOUNDATIONS OF THEORY (3)**

PR: SYG 2000 or CI. Consideration of selected theories in sociology and procedures of systematic theory construction.

SYA 3300 SOCIAL INVESTIGATION (3)

PR: SYG 2000, STA 3122. Methods and techniques of social research. Design of sociological studies, collection of data, and interpretation of results.

SYA 3503 COMMENTARY FILM MAKING IN THE SOCIAL SCIENCES (3)

PR: Major in the College of Arts and Sciences and CR in an upper level course. For students majoring in some other college, approval by major professor and instructor of course are both required, but concurrent registration in one of the social and behavioral science courses is maintained. The consideration of the theoretical and technical requirements for expressing social science concepts and propositions on film. Film planning, camera techniques, editing silent film, and the utilization of the independent sound (tape cassette) in the commentary film. Ethics of film making.

SYA 3504 LABORATORY WORK IN COMMENTARY**FILM MAKING IN THE SOCIAL SCIENCES (1)**

PR: SYA 3503, CR in a course in the social and behavioral sciences with instructor's approval to enable student to make a film in lieu of some other course requirement. A continuation of lab and field work in the making of commentary films. Camera, editorial and problems of independent sound solved in the context of making a film in one of the social sciences. Does not count for sociology major credit. May be repeated for a maximum of three credits. (S/U only.)

SYA 4430 COMPUTERS IN SOCIOLOGICAL RESEARCH (3)

Introduction to the uses of computers in sociological research. Major emphasis is upon the use of statistical packages (principally SPSS) in data analysis. (S/U only.)

SYA 4910 INDIVIDUAL RESEARCH (1-3)

PR: Four courses in sociology, including SYA 3300, upper level standing, at least 3.0 overall GPA, or CI. Content dependent upon interest and competence of student. A contract specifying the work to be done must be completed and signed by both the student and the chairperson of the department before registration for this course will be permitted. May be repeated for credit. Up to 3 credits may be counted towards meeting major electives requirement.

SYA 4930 TOPICS IN SOCIOLOGY (3)

PR: 12 semester hours of Sociology and prior CI. May be repeated for credit. See class schedule for content.

SYA 4935 SENIOR SEMINAR (3)

For seniors majoring in sociology or other social sciences. Major issues in sociology, stressing theory and research.

SYA 4949 SOCIOLOGICAL INTERNSHIP (1-6)

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 on applying sociological skills and methods in the placement setting. May be repeated up to 6 credit hours. (S/U only.)

SYD 3700 RACIAL AND ETHNIC RELATIONS (3)

PR: SYG 2000 or CI. Comparative study of interracial relations, social tensions, attitudes, and modes of adjustment in various areas of the world.

SYD 4020 POPULATION (3)

PR: SYG 2000 or CI: upper level standing. Sociological determinants of fertility, mortality and migration; theories of population change.

SYD 4410 URBAN SOCIOLOGY (3)

PR: SYG 2000 or CI; upper level standing. The social structure of the community in modern industrial societies. Analysis of community change.

SYD 4441 COMPARATIVE RURAL SOCIOLOGY (3)

PR: SYG 2000 or CI. The study of rural life in the United States; compares the situation in the United States with that of other societies as well as other times in history; some aspects of rural peasant societies and experiments in rural community formation.

SYD 4800 SOCIOLOGY OF SEX ROLES (3)

PR: SYG 2000; WST 2010 or 2011; 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. (Also offered under Women's Studies.)

SYG 2000 INTRODUCTION TO SOCIOLOGY (3)

Nature and application of sociological concepts, theories, and methods; analysis of societies, associations and groups; social processes and social change.

SYG 2412 MARRIAGE (3)

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 3010 CONTEMPORARY SOCIAL PROBLEMS (3)

Application of sociological concepts and principles to the description and analysis of major social problems of modern societies. Does not count for sociology major credit.

SYO 3120 THE FAMILY (3)

PR: SYG 2000 or CI. Principles of family organization, social adjustment, and control. Maturation, socialization, and stability of the family.

SYO 3200 SOCIOLOGY OF RELIGION (3)

PR: SYG 2000 or CI. Types, sources, and functions of religious behavior. Religious behavior in relation to other aspects of personality and culture.

SYO 3500 SOCIAL ORGANIZATION (3)

PR: SYG 2000 or CI. Social organization in the broadest sense, including institutions and associations, as well as variations in role and status.

SYO 3530 SOCIAL STRATIFICATION (3)

PR: SYG 2000 or CI. Social status and social stratification, social class as a factor in behavior, social mobility.

SYO 4300 POLITICAL SOCIOLOGY (3)

PR: SYG 2000 or CI. An examination of the social factors that affect government, politics, and political behavior.

- SYO 4370 OCCUPATIONS AND PROFESSIONS** (3)
PR: Upper level standing or CI. A comparative analysis of professions, particularly medicine, law, teaching, allied health professions, engineering. Focus on process professionalizing service occupations like policework, business management, public administration and social work.
- SYO 4400 SOCIOLOGY OF MEDICINE** (3)
PR: SYG 2000 or CI. An examination of the major theoretical and methodological tools used by sociologists in studying medical care. A representative sampling of medical sociological studies will be reviewed and discussed.
- SYP 3000 SOCIAL PSYCHOLOGY** (3)
PR: PSY 2012 or SYG 2000. Behavior of the individual human being as affected by social and cultural influences of modern society.
- SYP 4055 SYMBOLIC INTERACTION** (3)
Interpersonal influence, complex behavior, role, conflict, and social situational factors. (PR: 3000 or CI; upper division standing)
- SYO 4300 COLLECTIVE BEHAVIOR** (3)
PR: SYG 2000 or CI; upper level standing. Study of the development of group and mass behavior crowds, social movements.
- SYP 4400 SOCIETY IN TRANSITION** (3)
PR: Introduction to Sociology and upper level standing. An analysis of the forces for change in contemporary society, utilizing a sociological perspective.
- SYP 4420 SOCIOLOGICAL IMPLICATIONS OF INDUSTRIALIZATION** (3)
PR: SYG 2000 or CI. Socio-cultural elements which define and accompany the process of industrialization as observed in mature industrial nations.
- SYP 4510 SOCIOLOGICAL ASPECTS OF DEVIANCE** (3)
PR: SYG 2000, or CI. Definition and theories of deviance applied to substantive areas such as drug use, sexual varieties, and other stigmatized activities, mental illness, and white collar crimes.
- SYP 4520 CRIMINOLOGY** (3)
PR: SYG 2000 or CI; upper level standing. Etiology of criminal behavior; law enforcement, crime in the United States, penology and prevention.
- SYP 4530 JUVENILE DELINQUENCY** (3)
PR: SYG 2000 or CI; upper level standing. Theories of delinquency, patterns of delinquent behavior methods of control and treatment.
- SYP 4640 LEISURE IN SOCIETY** (3)
Facts and trends of changing leisure-time patterns in the USA and other countries; various conceptualizations of leisure; relationships on non-work time to work attitudes, personality, family, community, subcultures, religion, value systems, social class, and the functions of government.
- SYP 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** (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.)
- PHI 4632 FEMINIST ETHICS** (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 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** (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** (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** (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.)
- SYD 4800 SOCIOLOGY OF SEX ROLES** (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 2380 HUMAN SEXUAL BEHAVIOR** (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** (3)
Survey of major issues relevant to the female experience. The women's movement: historical, psychological, sociological, anthropological perspectives.
- WST 3011 ISSUES IN FEMINISM** (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** (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** (3)
Survey of European women from the late Middle Ages to the twentieth century: differing consequences of historical change for women and men. (May also be taken for credit in History.)
- WST 3270 AMERICAN WOMAN IN CONTEMPORARY SOCIETY I** (3)
An analysis of the status and opportunities of contemporary American women in their social context, using both historical and socio-psychological data. (Only offered on the Ft. Myers campus.)
- WST 3271 AMERICAN WOMAN IN CONTEMPORARY SOCIETY II** (3)
An analysis of current issues facing American women, focusing

on the nature and consequences of stereotyping, and on women and employment, creativity, health issues, the family, aging, poverty and abuse. (Only offered on the Ft. Myers campus)

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, Marxist-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.

WST 4260 RESEARCH ISSUES ON WOMEN OF COLOR (3)

An interdisciplinary introduction to the research process as it has been carried out on women of color nationally and internationally.

WST 4262 LITERATURE BY AMERICAN WOMEN OF COLOR (3)

An introduction to contemporary women writers of color in the U.S.: Native Americans, African Americans, Asian Americans, and Chicanas/U.S. Latinas. Readings will include literature and contextual articles on historical and cultural issues. (May also be taken for credit in English Department.)

WST 4263 THIRD WORLD WOMEN WRITERS (3)

Introduces the literature of women from various *anglophone* countries in Africa, the Caribbean, and South Asia; some U.S. writers will be included to represent a third world diasporic consciousness. (May also be taken for credit in English Department.)

WST 4309 THE FEMALE EXPERIENCE IN AMERICA (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. (May also be taken for credit in History.)

WST 4310 FEMINISM IN AMERICA (3)

Emergence of the women's movement in 19th century America: origins, theoretical and practical issues, relation to European feminism. Sources, issues, implications of 20th century feminism. (May also be taken for credit in History.)

WST 4320 WOMAN'S BODY/WOMAN'S MIND (3)

An analysis of the historical, social and political perspectives of women's health and healing experiences, and how woman's role as patient and provider of care are shaped by public and cultural assumptions.

WST 4335 WOMEN AND FILM (3)

A study of representation of women in Hollywood films and the responses of feminist film theorists and filmmakers working in documentary, experimental and narrative modes.

WST 4342 CLASSICS IN FEMINIST THEORY (3)

A study of classic contributions to the elaboration of feminist thought from the 18th century to the present in an attempt to discover the roots of the contemporary feminist movement. This course is cross-listed with the Department of Philosophy.

WST 4900 DIRECTED READINGS (1-3)

PR: Registration requires instructor's written consent and signed contracts from instructor of choice. To provide advanced students with interdisciplinary research experience in areas of specific interest. May be repeated up to 6 credit hours.

WST 4910 DIRECTED RESEARCH (1-3)

PR: Registration requires instructor's written consent and signed contracts from instructor of choice. To provide advanced students with interdisciplinary research experience in areas of specific interest. May be repeated up to 6 credit hours.

WST 4930 SELECTED TOPICS (1-4)

PR: WST 3010 or CI. Study in special areas such as Feminist Spirituality, Women Artists, etc.

WST 4935 SEMINAR IN WOMEN'S STUDIES (3)

PR: WST 3011 or CI. In-depth study of research in one or more areas of topical interest to students and staff. Research involvement by students required.

WST 5001 FEMINIST RESEARCH AND METHODOLOGY (3)

The main goals of this course are to develop a more comprehensive understanding of the situation of women in society and to develop a theoretical basis for integrating this knowledge into the student's graduate course of study.

WST 5266 WOMEN OF COLOR: ACTIVISM AND SOCIAL CHANGE (3)

Intensive reading and discussion of the participation of women of color in contemporary revolutionary and reformist activities. Class project involvement is required.

WST 5318 FEMINIST SPIRITUALITY (3)

This course will focus on the many voices of contemporary feminist spirituality, emerging from women's experiences in diverse religious, ethnic and cultural traditions, and representing a range of theoretical perspectives from biblical feminism to goddess worship and wicca. (May also be taken for credit in Religious Studies.)

WST 5934 SELECTED TOPICS (1-4)

Study of current research methods and scholarship on women from a multidisciplinary perspective. May be repeated as topics vary. (CI).

COLLEGE OF BUSINESS ADMINISTRATION

UNIVERSITY OF SOUTH FLORIDA - 1993/94 UNDERGRADUATE CATALOG

ACCOUNTING/LAW

Director, School of Accountancy: G. L. Holstrum; *Jim and Leacy Quinn Eminent Scholar Chair in Accounting and Taxation:* C. J. O'Neil; *Professors:* D. M. Dennis, C. W. Dungan, J. A. Fellows, G. L. Holstrum, K. L. Hooks, R. M. Keith, G. H. Lander, C. J. O'Neil, J. L. Smith, W. L. Stephens, R. J. West; *Professors Emeritus:* L. C. Jurgenson; K. W. Merriam; *Associate Professors:* L. M. Alberto, J. F. Bussman, T. J. Engle, L. C. Harris, S. C. Kahn, G. A. H. Laursen, J. R. Martin, J. E. Moon, W. H. Parrott, J. D. Siebel, R. F. Welker, G. F. Whittaker; *Assistant Professors:* D. O. Burgess, J. Lassefer, W. C. Quilliam; *Instructor:* T. A. Price; *Lecturer:* C. L. Jozsi.

ECONOMICS

Chairperson: J. W. Rowe, Jr.; *Professors:* D. M. Bellante, T. D. Curtis, J. S. DeSalvo, H. S. Dye, W. J. Herman, J. W. Rowe, Jr., E. W. Shows; *Professor Emeritus:* G. Brunhild; *Associate Professors:* J. P. Cooke, E. J. Ford, C. A. Green, E. A. Hanni, M. G. Herander, P. K. Porter, R. F. Shannon, J. G. Spence, C. R. Thomas, R. M. Wilson; *Assistant Professor:* S. S. Lee; *Lecturers:* S. Brandmeyer, V. H. Grigg, T. J. Hailstones, B. Kamp; *Instructor:* J. Dewey.

FINANCE

Chairperson: G. Kanatas; *Lykes Professor of Banking & Finance:* J. L. Pappas; *University Distinguished Service Professor and Serge Bonanni Distinguished Professor of International Finance:* A. Beenhakker; *Professors:* A. Beenhakker, S. E. Bolten, R. G. Cox, G. Kanatas, S. Kaplin, R. L. Meyer, F. B. Power, A. Schwartz, K. F. Wieand; *Associate Professors:* S. Besley, S. B. Bulmash, D. A. Johnson, P. Kares, R. J. Rivard; *Assistant Professors:* L. Johnson, H. W. Lee, W. G. Modrow, S. Quintero, R. Sanders; *Other Faculty:* J. Rader.

INFORMATION SYSTEMS AND DECISION SCIENCES

Chairperson: P. H. Cheney; *Professors:* S. J. Birkin, P. H. Cheney, J. S. Hodgson; *Associate Professors:* H. C. Allen, R. A. Boggs, M. E. Cohen, T. E. Johnson, Jr., M. J. White; *Assistant Professors:* M. Alexander, J. E. Blanton, R. W. Collins, T. C. Harrington, E. M. Hufnagel, T. L. Sincich, R. P. Will; *Instructor:* R. R. McGrath, Jr.; *Lecturers:* R. J. Remmel, K. P. Temte, H. W. Stirling.

MANAGEMENT

Chairperson (Acting): R. L. Anderson; *Professors:* A. C. Bartlett, C. F. Cohen, R. E. Dutton, J. M. Jermier, M. Karlins, W. R. Nord, W. K. Schilit, H. M. Schroder, K. R. VanVoorhis, T. L. Wheelen; *Associate Professors:* G. A. Balfour, J. T. Knippen, J. Koehler, N. McIntosh, C. E. Michael, Jr., R. L. Nixon; *Assistant Professor:* J. Gaines; *Distinguished Lecturer:* R. Miljus; *Lecturer:* E. Hargis.

MARKETING

Chairperson: W. B. Locander; *Professors:* R. L. Anderson, S. A. Baumbarten, W. B. Locander, T. E. Ness, P. J. Solomon, J. R. Stock; *Associate Professors:* W. A. DeBord, L. R. Duffus, J. S. Hensel, D. J. Ortinau, M. B. Stamps; *Assistant Professors:* J. R. Goolsby, R. R. Lagace, J. L. Twible; *Lecturers:* V. B. Griffis, R. L. Leeds, J. E. Reedy, C. E. Vincent.

ACCOUNTING/LAW

ACG 2001 FINANCIAL AND MANAGERIAL ACCOUNTING I (3)
Study of basic accounting principles including the recording and reporting of financial activity. The preparation and interpretation of financial statements.

ACG 2011 FINANCIAL AND MANAGERIAL ACCOUNTING II (3)
PR: ACG 2001. (1) A continuation of financial accounting topics from Elementary Accounting I concerning the preparation and interpretation of financial statements; (2) A study of the role of the accountant in assisting management in the planning and controlling of operations.

ACG 3074 MANAGERIAL ACCOUNTING FOR ENGINEERS (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 3102 INTERMEDIATE ACCOUNTING I (4)
PR: ACG 2011. Measurement theory and methodology underlying income measurement and reporting of financial position. The study of compound interest fundamentals, cash, temporary investment, receivables, inventories, property and equipment, intangibles, and long term investments.

ACG 3112 INTERMEDIATE ACCOUNTING II (4)
PR: ACG 3102. Continuation of theory and principles underlying regression - financial statements: current and long term liabilities, stockholders' equity, income taxes, pensions, leases, accounting changes, inflation, and the statement of cash flows.

ACG 3341 COST ACCOUNTING AND CONTROL I (3)
PR: FIN 3403, QMB 3200. Deals with relevant costs for decision making, standards and job order costing, flexible budgeting

direct and absorption costing, regression analysis and decision models.

ACG 3401 ACCOUNTING INFORMATION SYSTEMS (3)
PR: ACG 3102, and CGS 2000. Manual and computer-based accounting systems, including order processing, accounts receivable, inventory management, and responsibility accounting systems. Emphasis on internal control, efficiency, and provision of useful information.

ACG 4201 ADVANCED ACCOUNTING (4)
PR: ACG 3112. Accounting for business combinations, preparation of consolidated financial statements, home office and branch operations, accounting for international operations and partnership.

ACG 4351 COST ACCOUNTING AND CONTROL II (3)
PR: ACG 3341. Further development of the material covered in ACG 3341 with special emphasis on cost allocation issues and accounting in the new manufacturing environment.

ACG 4501 NONPROFIT ORGANIZATION ACCOUNTING (3)
PR: ACG 2011. Application of accounting principles and theory of governmental units and nonprofit institutions. Available to majors and Master of Business Administration students.

ACG 4621 COMPUTER CONTROL AND AUDIT (3)
PR: ISM 3113. Study of information systems controls and auditing techniques emphasizing the effect both general 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.

ACG 4632 AUDITING I (3)
PR: ACG 3112, ACG 3401, and QMB 3200. Principles and procedures of internal and public auditing. The ethics, responsibilities, standards, and reports of professional auditing.

ACG 4642 AUDITING II (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 4801 CONTEMPORARY ACCOUNTING THOUGHT (3)
PR: Intermediate Accounting II or equivalent. An in-depth coverage of selected topics in accounting. Emphasis is placed on current significant developments that have taken place in the profession which the student should have for a well-rounded background in accounting but have not been exposed to in previous courses. Available to majors and non-majors.

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 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 FEDERAL TAXES I (3)
PR: ACG 2011. An introduction to the federal income tax structure. Use of tax services and the concept of taxable income primarily applicable to individuals.

TAX 4011 FEDERAL TAXES II (3)
PR: TAX 4001. Advanced study of the federal income tax structure. Special topics and the concept of taxable income as it applies primarily to business enterprises.

ECONOMICS

ECO 1003 BASIC ECONOMICS (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. No credit toward the major or minor in Economics.
ECO 2013 ECONOMIC PRINCIPLES (MACROECONOMICS) (3)

PR: ECO 2023. Introduction to the theory of income determination with emphasis on applications of monetary and fiscal policies. Topics discussed are: objectives of full employment, price stability, economic growth, and balance of payments stability.

ECO 2023 ECONOMIC PRINCIPLES (MICROECONOMICS) (3)

Fundamental economic concept of scarcity, and the problem of choice. How an economy decides what to produce, how to produce and how to distribute goods and services to participants in the economy. Attention is focused on factors affecting consumer wants and on the determination of prices in markets.

ECO 2935 SELECTED TOPICS IN ECONOMICS (1-3)

PR: CI. Topics to be selected by department chairperson. May be repeated if topics vary. Not available for credit to upper-level students who have been admitted to the College of Business.

ECO 3101 INTERMEDIATE PRICE THEORY (3)

PR: ECO 2023. Analysis of supply and demand as related to product and resource pricing under various market structures.

ECO 3203 INTERMEDIATE INCOME & MONETARY ANALYSIS (3)

PR: ECO 2013 and ECO 3101 with a grade of "C" or better. Analysis of the determination of income, employment, prices, and interest rates. Emphasis is placed on the interaction of aggregate demand and aggregate supply.

ECO 3622 AMERICAN ECONOMIC HISTORY (3)

PR: ECO 2023. The growth and evolution of American economic institutions from Colonial times to the present.

ECO 3703 INTERNATIONAL ECONOMICS (3)

PR: ECO 3101 with a grade of "C" or better. Role of international trade in the U.S. economy. Emphasis is placed on the bases of trade and the nature of gains from trade, balance of payments, exchange rate determination, equilibrating mechanisms for restoring balance of payments stability and international commercial policy.

ECO 4213 MONETARY THEORY (3)

PR: ECO 3203. Examination of the impact of the financial sector on real and nominal economic magnitudes. The course approaches its subject matter through the theory of portfolio and capital adjustments.

ECO 4303 HISTORY OF ECONOMIC THOUGHT (3)

PR: ECO 3101 with a grade of "C" or better. The development of economic schools of thought, from Plato to Marshall, are traced and analyzed. The impact of historical and political conditions will be stressed.

ECO 4323 MARXIST POLITICAL ECONOMY (3)

PR: ECO 2013, or CI. An examination of the Marxist school of thought in economics. Application of Marxist economic theory to problems of advanced capitalist and socialist societies.

ECO 4401 INTRODUCTION TO MATHEMATICAL ECONOMICS (3)

PR: ECO 2013, and QMB 3200, MAC 3233 or CI. Economic analysis using mathematical tools such as matrix algebra and differential calculus. Models of optimizing behavior and economic equilibrium.

ECO 4504 PUBLIC FINANCE (3)

PR: ECO 3101 with a grade of "C" or better. Examination of the public sector and its contribution to economic welfare. Government expenditures and revenues in relation to their impact on resource allocation, income distribution, stabilization, and economic growth.

ECO 4713 INTERNATIONAL MONETARY RELATIONS (3)

PR: ECO 3203. An advanced analysis of international macroeconomic relationships. Foreign exchange market, international monetary system balance of payments and balance of payments adjustment. Macroeconomic policy in an open economy. International transmission of economic disturbances.

ECO 4723 INTERNATIONAL COMMERCIAL POLICIES (3)

PR: 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 3203 LABOR ECONOMICS (3)

PR: ECO 3101 with a grade of "C" or better. An examination of the determinants of wage and employment levels; occupation, industrial and geographical wage differentials, union and public policy effects on labor markets; the economics of discrimination; inflation and unemployment.

ECP 3413 BUSINESS-GOVERNMENT RELATIONSHIPS (3)

PR: ECO 2023. An examination of the rationale and performance of federal government regulation in the United States. Analyzes the impact of various government regulations on product price, output, and producer and consumer surplus to determine the efficacy of government regulation.

ECP 3613 ECONOMICS OF THE URBAN ENVIRONMENT (3)

PR: ECO 2013 and ECO 2023. Economic analysis of the phenomena of cities as well as urban social problems including poverty, discrimination, housing, transportation, pollution, crime and fiscal considerations.

ECP 4232 COLLECTIVE BARGAINING AND PUBLIC POLICY (3)

PR: ECO 2023 or CI. Administration of labor management agreements, etc. Impact of the government role in collective bargaining and labor relations will be examined in light of current labor laws and judicial interpretations.

ECP 4451 LAW AND ECONOMICS (3)

PR: ECO 3101 with a grade of "C" or better. An advanced analysis of the economic impact in the areas of: Tort, Criminal, Property and Contract Law as well as in the formation and adjudication of law.

ECS 3013 ECONOMIC DEVELOPMENT (3)

PR: ECO 2013 or CI. Problems, policies, and dynamics of economic development in emerging nations. Benefits and relevance of theories of economic development are examined within the context of the social and political milieu of today's underdeveloped areas.

ECS 4003 COMPARATIVE ECONOMIC SYSTEMS (3)

PR: ECO 2013 or CI. Analysis of the major types of economic systems: traditional, capitalism, democratic socialism, communism and fascism. Methodology of Max Weber will be stressed.

FINANCE

FIN 2935 SELECTED TOPICS IN FINANCE (1-6)

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 Administration. May be repeated up to 6 credit hours.

FIN 3100 PERSONAL FINANCE (3)

Survey of the problems and techniques of personal financial planning. Includes consumer credit, insurance, home ownership, and personal investing, with attention given to current economic and legal constraints. Not available for credit to upper level students who have been admitted to the College of Business. May not be counted toward major requirements in FIN or GBA.

FIN 3105 INTRODUCTION TO INVESTMENTS (3)

Emphasizes the operations of the security markets in the U.S. and the risks and returns of alternative investment media. Designed for non-business administration students. Not available for credit to upper level students who have been admitted to the College of Business. May not be counted toward major requirements in FIN or GBA.

FIN 3233 MONEY AND BANKING (3)

PR: ECO 2013. Examines the structure and operations of our monetary system, commercial banking, central banking, money, and capital markets, and provides an introduction to monetary theory and policy.

FIN 3403 PRINCIPLES OF FINANCE (3)

PR: ACG 2011 and ECO 2023. Study of the processes, decisions structures, and institutional arrangements concerned with the

use and acquisition of funds by a firm. Includes the management of the asset and liability structure of the firm under certain and risky situations. The financial decision process will include and recognize the international as well as domestic aspects of financial management.

FIN 3604 INTERNATIONAL FINANCE (3)

PR: ECO 2013 or CI. Study of factors affecting international business, assessment of risks, international managerial finance; institutions and instruments of international business finance.

FIN 4245 FEDERAL RESERVE SYSTEM AND MONETARY POLICY (3)

PR: FIN 3233 or CI. An analysis of the Federal Reserve System, with special emphasis on monetary theory and the formulation and administration of monetary policy.

FIN 4303 FINANCIAL INSTITUTIONS (3)

PR: FIN 3233. A study of financial institutions and their roles in the capital market includes the savings allocation, investment, and financial decision making processes.

FIN 4324 BANK MANAGEMENT (3)

PR: FIN 3403 and FIN 3233. 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 4412 WORKING CAPITAL MANAGEMENT (3)

PR: FIN 3403. This course is designed to provide the student with an understanding of short-term financial management. Topics to be covered include cash management, credit and collection policy, inventory decisions, and sources of short-term financing.

FIN 4414 ADVANCED CORPORATION FINANCE (3)

PR: FIN 3403. An examination of the financial policies of corporations, with special reference to dividend policy, financial structure, capital expenditures, acquisitions, mergers, and reorganization.

FIN 4443 FINANCIAL POLICIES AND STRATEGIES (3)

PR: FIN 4414. A senior seminar for majors in Finance. Primarily a case course examining financial policies and the application of financial analysis to alternative strategies.

FIN 4504 PRINCIPLES OF INVESTMENTS (3)

PR: ECO 2013 and FIN 3403. Survey of the risks and returns of investment media in relation to the investment objectives of individual and institutional investors. Includes an examination of the capital markets, information flows, and analytical techniques in terms of their impact upon the valuation process.

FIN 4514 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.

FIN 4905 INDEPENDENT STUDY (1-3)

PR: CI. Specialized independent study determined by the students' needs and interests. May be repeated up to six credit hours. (S/U only.)

FIN 4915 INDEPENDENT RESEARCH (1-3)

PR: CI. Individual study contract with instructor and department chairperson. The research project will be mutually determined by the student and instructor. May be repeated up to 6 hours.

FIN 4934 SELECTED TOPICS IN FINANCE (1-3)

PR: CI. Topics to be selected by instructor and department chairperson on pertinent Finance issues.

REE 3043 PRINCIPLES OF REAL ESTATE (3)

Economics of urban land utilization and the nature of property rights. Problems of urban development and the valuation of real property in terms of the structure and operations of the real estate market.

REE 3703 REAL ESTATE LOCATION THEORY AND URBAN DEVELOPMENT (3)

PR: ECO 2023. The spatial determinants of real property demand and supply. Theoretical bases for market feasibility, risk analysis, real estate market forecasting.

REE 4103 REAL ESTATE APPRAISAL (3)

PR: REE 3043. Comprehensive coverage of the basic concepts and principles of real estate appraisal. Emphasis placed on the use of valuation tools for the appraisal of real estate with emphasis on residential property.

REE 4143 INCOME PROPERTY VALUATION (3)

PR: REE 3043 and FIN 3403. Application of general appraisal methodologies and financial analysis to the valuation of income

producing properties. Focus is on the income approach to valuation.

REE 4204 REAL ESTATE FINANCE (3)

PR: REE 3043. A comprehensive analysis of the institutional and legal framework of real estate financing together with an introduction to the financing techniques which are traditionally utilized to finance real estate. Includes methods of raising debt and equity funds. Analysis of real property for financing purposes is stressed in a decision-making context and how that decision affects the real estate investment.

REE 4303 REAL ESTATE INVESTMENT ANALYSIS (3)

PR: FIN 3403, REE 3043. A comprehensive study of the determinants of the market and financial feasibility of the real estate investment decision. The development of market and site analyses, theories or urban development patterns, and the role of taxation will be studied along with the application of analytical techniques for decision making.

REE 4313 REAL ESTATE FEASIBILITY ANALYSIS (3)

PR: REE 3703, REE 4143, and QMB 3200. A comprehensive and in-depth study of the determinants of the market and financial feasibility of the real estate investment decision.

RMI 3011 PRINCIPLES OF INSURANCE (3)

Analysis of insurable risks of both business and individuals. An examination of the characteristics of those areas of risk and uncertainty where the mechanisms of insurance are effective alternatives. The concept, contracts, and institutions involved in insurance are examined in relationship to the socio-economic environment.

RMI 4115 LIFE, HEALTH, AND DISABILITY INSURANCE (3)

PR: QMB 3200, RMI 3011. The course will analyze the use of life, health, and disability insurance contracts as a method of dealing with the risks of death, sickness, and disability. It will include an analysis of cost determination of the various types of coverage.

RMI 4210 PROPERTY INSURANCE (3)

PR: RMI 3011. Course dealing with recognition of personal and business property risks, and coverages which may be used in dealing with these risks. Considers the underwriting, marketing, and social problems associated with these coverages. Topics include commercial and residential fire insurance, inland marine and transportation coverages, and multiperil contracts. Not limited to Finance majors.

RMI 4220 CASUALTY INSURANCE (3)

PR: RMI 3011. Course dealing with recognition of personal and business casualty risks and coverages which may be used in dealing with these risks. Considers the underwriting, marketing, and social problems associated with these coverages. Topics include workmen's compensation, public liability, auto liability, suretyship and crime insurances. Not limited to Finance majors.

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 3112. 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 3112. 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 3112 or CI. A comprehensive study of commercial law as it affects the practice of accounting.

GEB 2935 SELECTED TOPICS IN BUSINESS(1-6)

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 (3)

PR: Senior standing. 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 stu-

dent's needs and interests. May be repeated up to eight credit hours. (S/U 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.

MAN 5925 CBA WORKSHOP (1-4)

Professional application workshop in various areas of finance, marketing, economics, accounting, management. May be repeated when subjects differ.

INFORMATION SYSTEMS AND DECISION SCIENCES

CGS 2000 COMPUTERS IN BUSINESS -6A (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 2000; ACG 2001; ACG 2011 or equivalent. The study of information management, management information requirements and information systems in modern organizations.

ISM 3112 SYSTEMS DESIGN (3)

PR: ISM 3111C; COP 3120 or equivalent. Advanced study of structured systems design. Emphasis on strategies and techniques of structured analysis and structured design for producing logical methodologies for dealing with complexity in the development of information systems.

ISM 3113 SYSTEMS ANALYSIS AND DESIGN (3)

PR: COP 3120 or equivalent. Study of the techniques and procedures used in assessing information requirements, analyzing information flows and processing activities, and designing computer-based business systems.

ISM 3431 MANAGEMENT SCIENCE PRODUCTION/OPERATIONS MANAGEMENT APPLICATIONS (3)

PR: MAC 3233. Fundamentals of production operations management (POM) and fundamentals of management science (MS). The application of MS models in the solution of POM problems.

ISM 4212 DATABASE ADMINISTRATION (3)

PR: ISM 3112C or ISM 3113. Principles of database administration. Database organization and models. Disaster planning for database files.

ISM 4220 DISTRIBUTED INFORMATION SYSTEMS (3)

PR: ISM 3112C. Analysis, design, implementation and management of distributed information systems and networks.

ISM 4290 SENIOR SEMINAR IN INFORMATION SYSTEMS (3)

PR: ISM 3112C, ISM 4300. A seminar covering advanced topics in system analysis and design. Applications of these procedures to actual or hypothetical cases.

ISM 4300 MANAGING INFORMATION SERVICES (3)

PR: MAN 3025, ISM 3111, or ISM 3113; or equivalent. An advanced study of information system management including system planning, project selection and management, and organizational information management policies.

ISM 4320 INFORMATION SYSTEMS CONTROLS (3)

PR: ISM 3111 or ISM 3113. 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 3111 or ISM 3113. Study of the principles of decision making of the human/computer alliance. Hands-on computer-assisted-decision making in an organizational environment. Case studies and/or management games using micro-computers.

ISM 4905 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 (1-9)

Selected topics in MIS.

ISM 4950 INDEPENDENT RESEARCH (1-8)

PR: CI. Individual study contract with instructor and department

chairperson required. The research project will be mutually determined by the student and instructor.

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 2150 BUSINESS AND ECONOMIC STATISTICS I -6A (3)

PR: MAC 3233. 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 3233, QMB 2150. Theory and use of statistical inference. Point and interval estimations; criteria for choosing estimators and decision rules; hypotheses tests; analysis of variance; correlation; multiple regression; and nonparametric 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.

MANAGEMENT

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 unionization. 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 personal, interpersonal, 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)

PR: MAN 3240. This course involves the transference 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 4802 ENTREPRENEURSHIP AND SMALL BUSINESS MANAGEMENT (3)

PR: ACC 2001, ACC 2021, 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: CI. 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: CI. Topics to be selected by instructor and department chairperson for pertinent Management issues.

MAN 4931 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.

MAN 5714 URBAN MANAGEMENT (3)

The applicability of business management theories and practices to problem solving in the public sector. A formal theory of organization is used to compare and contrast private and public sector decision environments.

MAN 5806 ENTREPRENEURSHIP AND SMALL BUSINESS MANAGEMENT COUNSELING (1-3)

Small business management consulting in an on-going firm. Field application of various aspects of business administration in analyzing strengths and weaknesses, development of recommendations for improvement, and initiation of steps to assist business principals in evaluation and implementation. Emphasis on developing management consulting skills and recognizing implications of small business owner-manager's capabilities and attitudes for success in implementing recommendations.

MARKETING

MAR 2931 SELECTED TOPICS IN MARKETING (1-4)

PR: CI. 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 8 credit hours.

MAR 3023 BASIC MARKETING (3)

PR: ACG 2001, ECO 2013, ECO 2023, or CI. 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 CI. 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 interrelationships including distribution logistics.

MAR 4213 LOGISTICS AND PHYSICAL DISTRIBUTION MANAGEMENT (3)

PR: MAR 3023 or CI. 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 controlling customer service levels.

MAR 4231 RETAILING MANAGEMENT (3)

PR: MAR 3023. A comprehensive study of the retailing structure, institutions, and environment. Includes pertinent management theories and practices in analyzing, organizing, planning and controlling retail operations, both large and small.

MAR 4333 PROMOTION MANAGEMENT (3)

PR: MAR 3023 or CI. A study of the role of promotion in the marketing program of the firm, including the promotional tools available to the marketing manager and the various types of decisions made in the promotional area. Decision making process in development of a promotional program is emphasized.

MAR 4403 SALES MANAGEMENT (3)

PR: MAR 3023 or CI. 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 INDUSTRIAL 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 CI. 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 4903 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 credit hours.

MAR 4905 INDEPENDENT STUDY (1-3)

PR: CI. Specialized independent study determined by the students' needs and interests. May be repeated up to 6 credit hours. (S/U only.)

MAR 4933 SELECTED TOPICS IN MARKETING (1-3)

PR: CI. Topics to be selected by instructor and department chairperson.

COLLEGE OF EDUCATION

UNIVERSITY OF SOUTH FLORIDA - 1993/94 UNDERGRADUATE CATALOG

ADULT AND VOCATIONAL EDUCATION

Chairperson: W. E. Blank; *Professor:* F. F. Johnson, W. B. James; *Associate Professors:* W. E. Blank, R. Hill, K. Smith; *Assistant Professors:* D. B. Briscoe, D. Gardner, J. Scaglione; *Visiting Instructors:* J. Grisham, W. Helton, G. Kilpatrick; *Other Faculty:* K. Childress, M. Paul.

CHILDHOOD/LANGUAGE ARTS/READING EDUCATION

Chairperson: S. Raines; *Professors:* S. Helton, J. Klesius, R. Linder, A. J. Lowe, L. McClellan, M. Mann, S. Raines, E. F. Searls; *Associate Professors:* N. Anderson, G. B. Barkholz, B. K. Clarke, F. W. Freshour, F. S. Goforth, P. Hanley, S. Homan, W. Kasten, J. King, J. Linder, J. T. Polito, C. Spillman, J. Swarzman; *Assistant Professors:* B. Frye, P. Griffith, M. Guddemi, J. Fountain; *Instructors:* M. E. Hewitt, K. Lafromboise, S. Mieklo, C. Schwartz, R. Short, M. Wynn; *Visiting Assistant:* N. Ratcliff; *Author in Residence:* G. Houston.

EDUCATIONAL LEADERSHIP

Chairperson: D. E. Orlosky; *Professors:* W. F. Benjamin, J. C. Bondi, P. E. McClendon, D. E. Orlosky, D. D. Peterson, D. M. Purdom, A. Shapiro, K. Snyder, L. Tuttle, M. G. Villeme, J. Wiles; *Associate Professors:* T. W. Keene, R. F. Pride; *Assistant Professor:* J. M. Arhar; *Courtesy Faculty:* R. Anderson.

EDUCATIONAL MEASUREMENT AND RESEARCH

Chairperson: B. W. Hall; *Professors:* L. M. Carey, B. W. Hall, W. G. Katzenmeyer, D. E. Stone, R. E. Wilk; *Associate Professors:* C. V. Hines, G. Hutchcraft, R. M. Smith; *Assistant Professor:* R. F. Dedrick, J. D. Kromrey.

PHYSICAL EDUCATION

Chairperson: L. E. Bowers; *Professors:* L. E. Bowers, R. Heeschen, H. A. Hoffman, S. E. Klesius, C. D. Smith; *Professor Emeritus:* M. E. Crickenberger; *Associate Professors:* B. L. Beasley, F. N. Faucette, R. Grindey, W. D. Hall, A. Jonaitis, H. Weinberg, J. F. Young; *Associate Professor Emeritus:* J. E. Young; *Assistant Professor:* I. Trice; *Visiting Instructor:* W. T. Price.

PSYCHOLOGICAL AND SOCIAL FOUNDATIONS

Chairperson: E. B. Kimmel; *Professors:* E. C. Anderson, J. Barnard, D. E. Bostow, W. W. Burley, J. C. Dickinson, D. J. Ferguson, J. C. Follman, O. G. Geiger, E. V. Johanningmeier, E. B. Kimmel, D. L. Lantz, E. E. Panther, S. H. Silverman; *Professors Emeritus:* R. J. Drapela, C. Weingartner; *Associate Professors:* G. M. Batsch, W. T. Bridges, D. L. Carroll, T. Evans, G. H. Kincaid, H. M. Knoff, R. Mumme, C. M. Story; *Assistant Professors:* D. J. Anderson, N. P. Greenman, S. Street; *Courtesy, Adjunct, Joint Appointment:* H. B. Clark.

SECONDARY EDUCATION

Chairperson: J. Howard Johnston; *Professors:* J. T. Bullock, C. W. Engel, J. H. Johnston, H. G. Karl, B. K. Lichtenberg, D. R. Lichtenberg, J. B. Kase-Polisini, D. J. Puglisi, S. L. Schurr, B. S. Spector, H. E. Steiner, A. M. Troutman; *Associate Professors:* F. D. Breit, P. V. Czyzewski, M. S. Holland, B. J. Kazanis, J. W. Levy, F. L. Prince; *Assistant Professors:* R. A. Austin, A. E. Barron, M. F. Chappell, B. C. Cruz, C. M. Feyten, J. N. Golub, J. Kaywell, D. R. Thompson, J. A. White; *Director, Alternate Teacher Preparation Program:* M. Drake; *Director, Instructional Computing Center:* S. S. VanDeventer.

SPECIAL EDUCATION

Chairperson: J. Paul; *Professors:* L. Bowers, E. Guetzloe, S. Klesius, C. D. Lavelly, K. Marfo, A. J. Mauser, J. Paul, S. P. Singh; *Research Professor:* W. Rhodes; *Associate Professors:* B. Epanchin, D. Evans, H. A. Sproles; *Assistant Professors:* M. S. Greene, A. Cranston-Gingras, D. Harris, K. Stoddard, L. Smith, D. Thomas, B. Townsend; *Other Faculty:* M. Adeigbola, H. Rosselli.

ADULT EDUCATION

ADE 4384 WORKING WITH THE ADULT LEARNER: ADULT EDUCATION (3)

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.

ART EDUCATION

ARE 3044 EXPERIENTIAL BASIS OF ARTISTIC MIND (3)

PR: Admission to College of Education. Designed to help the individual student discover and develop meanings and values in art and education with emphasis on communicative skills, both verbal and visual. Focus will be on the individual and potential alternatives in the teaching of art.

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 CRAFTS (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 4260 SEMINAR IN ART EDUCATION CLASSROOM MANAGEMENT (1)

PR: Admission to College of Education and ARE 3044. The concepts and areas of skill essential to successful practice in art education management. To include understanding of how art programs are funded, art facility planning, art curriculum development, art exhibition techniques, public relations promotion and supply and equipment requirements.

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 URBAN ENVIRONMENT/COMMUNITY ARTS WORKSHOP (3)

PR: Admission to College of Education and ARE 3044. Identification, exploration, and experimentation with unique community spaces and populations as potential new environments for teaching and learning in arts.

ARE 4909 DIRECTED STUDY: ART EDUCATION (1-3)

PR: Senior standing. To extend competency in teaching field.

ARE 4936 SENIOR SEMINAR IN ART EDUCATION (2)

PR: Senior standing. CR: ARE 4840. Synthesis of teacher candidate's courses in complete college program.

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.)

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 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 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 broad field business education. Specifically designed to be preparatory for the internship. (S/U only.)

BTE 5161 PROGRAM MANAGEMENT: BUSINESS EDUCATION (3)

Organization, coordination, and budgeting of adult, cooperative, and special programs.

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.

OST 3324 BUSINESS AND OFFICE MACHINES (3)

Instruction and practice on selected business and office machines to solve business mathematics problems.

OST 3501 ADMINISTRATIVE OFFICE MANAGEMENT (3)

Functions of the business office to include systems and procedures, communications, records, management, office employee behavior, controlling the work of the office, and principles of office organization.

OST 3711 OFFICE INFORMATION PROCESSING (3)

Application of concepts and technology of information processing to office operations. Review of the grammar, punctuation, and transcription skills needed for editing in word processing operations. Available to majors and nonmajors.

OST 4402 OFFICE OCCUPATIONS PROCEDURES (3)

PR: Successful completion of all basic competency exams required by the program area, or consent of program coordinator. This course is designed to integrate learnings from preceding business and office education courses.

COMPUTERS IN EDUCATION**EME 4402 INTRODUCTION TO COMPUTERS IN EDUCATION (2)**

Introduction to microcomputer technology and its function in the classroom to augment the teaching and learning processes. Topics include the critical evaluation of educational software; conceptualizing uses of computers in the classroom in terms of computer-directed instruction, computer-enhanced instruction, and computer-managed instruction; understanding hardware; using and applying commercial courseware, general applications software (word processors, database managers, etc.), and disk operating systems.

EME 5403 MICROCOMPUTERS IN EDUCATION: ELEMENTARY AND SECONDARY METHODS (3)

Methods and applications of computers in education. Topics include: computer literacy, current trends and issues in computer education, and instructional pedagogy in computer science education.

COUNSELOR EDUCATION**EGC 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.

EGC 4053 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, organization, funding, etc.

EGC 4101 HUMAN RELATIONS SKILLS IN COUNSELING (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.

EGC 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.)

SLS 1101 THE UNIVERSITY EXPERIENCE (2)

PR: Freshman only or CI. An extended introduction and orientation to USF. Topics include purposes of higher education, structure and function 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 participate 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 nonmajors.

CURRICULUM AND INSTRUCTION**EDG 1300 INTRODUCTION TO TEACHING (3)**

PR: Freshman only or CI. The people with whom teachers work, the types of tasks they perform and the challenges they can anticipate. Observation of teaching at several grade levels.

EDG 4620 CURRICULUM AND INSTRUCTION (3)

An introduction to the field of curriculum and instruction. Emphasis is placed on identifying educational goals and objectives and applying instructional principles.

DISTRIBUTIVE AND MARKETING EDUCATION**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.

DEC 4401 SPECIAL TEACHING METHODS: DISTRIBUTIVE EDUCATION (4)

Methods, techniques, and materials for skill development.

DEC 4411 METHODS OF TEACHING: DISTRIBUTIVE EDUCATION (3)

Methods, techniques, and materials for instruction.

DEC 4905 INDEPENDENT STUDY: DISTRIBUTIVE AND MARKETING 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.)

DEC 4936 SENIOR SEMINAR IN DISTRIBUTIVE AND MARKETING EDUCATION (2)

PR: Senior standing. CR: DEC 4940. Synthesis of teacher candidate's courses in complete college program.

DEC 4940 INTERNSHIP: DISTRIBUTIVE AND MARKETING EDUCATION (1-12)

CR: DEC 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.)

DEC 4941 SUPERVISED FIELD EXPERIENCE: DISTRIBUTIVE EDUCATION (1-6)

PR: CI. Planned supervised functions in the area of specialization and coordinated with selected schools, government offices, social agencies, businesses and industries on site.

DEC 5165 PROGRAM MANAGEMENT: DISTRIBUTIVE EDUCATION (3)

Organization, coordination, and budgeting of adult, cooperative, and special programs.

ELEMENTARY EDUCATION**ARE 4313 ART FOR THE CHILD AND YOU (3)**

PR: Admission to College of Education. Art and the intellectual, creative, emotional, and aesthetic growth of children.

EDE 4301 TEACHING METHODS IN THE ELEMENTARY SCHOOL (4)

PR: EDE 4941 and EDG 4620. Techniques and strategies appropriate to instruction of children in educational settings.

EDE 4905 INDEPENDENT STUDY: ELEMENTARY 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.)

EDE 4909 DIRECTED STUDY: ELEMENTARY EDUCATION (1-4)

PR: Senior standing. To extend competency in teaching field.

EDE 4936 SENIOR SEMINAR IN ELEMENTARY EDUCATION (2)

PR: Senior standing; CR: EDE 4940. Synthesis of teacher candidate's courses in complete college program.

EDE 4940 INTERNSHIP: ELEMENTARY EDUCATION (10)

PR: EDE 4941 and EDE 4942; CR: EDE 4936. Teacher candidate is required to demonstrate professional competencies during one semester of fullday internship in a public or private elementary school. (S/U only.)

EDE 4941 CHILDHOOD EDUCATION INTERNSHIP LEVEL I (4)

PR: Admission to the Elementary or Elementary/Early Childhood programs. Students spend six hours per week in a supervised in-school experience and attend weekly seminar. Concurrent enrollment in EDG 4620-Elementary section. (S/U only.)

EDE 4942 CHILDHOOD EDUCATION INTERNSHIP LEVEL II (6)

PR: EDE 4941. Students spend 12 hours per week in a supervised internship experience in classroom settings and attend a weekly seminar.

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 4203 PROGRAMS IN EARLY CHILDHOOD EDUCATION (4)

PR: Admission to College of Education. A study of school programs for children age 3-8. Analysis and evaluation of these programs in the light of the most effective current classroom practices. Observation and participation included.

EEC 4303 CREATIVE EXPERIENCES IN EARLY CHILDHOOD EDUCATION (3)

PR: Admission to College of Education. The development of the child's creative expression through art, music, dance, play, and drama; included are the materials, content, and teaching techniques.

EEC 4706 LANGUAGE AND LEARNING IN EARLY CHILDHOOD (3)

PR: Admission to College of Education. The study of the acquisition of language in young children and the development of basic communications skills in the Language Arts Curriculum, infancy through age 8 years.

EEC 4905 INDEPENDENT STUDY: ELEMENTARY 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: ELEMENTARY EARLY CHILDHOOD EDUCATION (1-3)

PR: Senior standing. To extend competency in teaching field.

EEC 4936 SENIOR SEMINAR IN ELEMENTARY EARLY CHILDHOOD EDUCATION (2)

PR: Senior standing; CR: EEC 4940. Synthesis of teacher candidate's courses in complete college program.

EEC 4940 INTERNSHIP: ELEMENTARY/ ELEMENTARY-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. Concurrent enrollment in EEC 4936. (S/U only.)

HLP 4722 HEALTH AND PHYSICAL EDUCATION FOR THE CHILD (3)

PR: Admission to the College of Education. 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.

LAE 4314 LANGUAGE ARTS IN CHILDHOOD EDUCATION (3)

PR: Admission to the College of Education. The exploration of the content, organization and instruction of oral communication and written expression in Childhood Education.

LAE 4414 LITERATURE IN CHILDHOOD EDUCATION (3)

PR: Admission to College of Education. 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 (3)

PR: Admission to College of Education and two college level mathematics courses. Methods for teaching number ideas, computation skills, and mathematical reasoning.

MAE 4326 TEACHING ELEMENTARY SCHOOL MATHEMATICS II (2)

PR: MAE 4310. Methods for teaching informal geometry, measurement, probability and statistics.

MAE 4510 DIAGNOSIS AND TREATMENT OF LEARNING DISABILITIES IN SCHOOL MATHEMATICS (3)

PR: MAE 4310 or equivalent. Presentation and analysis of teaching methods and models appropriate for use with students experiencing learning disabilities in mathematics; supervised conduct of a case study.

MUE 4210 MUSIC FOR THE CHILD (3)

PR: Admission to College of Education. Music fundamentals, the development of music skills and knowledge of music materials and teaching strategies for presenting music to children in the elementary school.

RED 4310 READING FOR THE CHILD (3)

PR: Admission to College of Education. Prereading, word recognition, comprehension and basic study skills and various reading approaches and reading interests.

SCE 4310 TEACHING ELEMENTARY SCHOOL SCIENCE (3)

PR: Admission to College of Education and completion of General Distribution Requirements in the Natural Science area. Techniques and materials for teaching science in the elementary school.

SSE 4313 TEACHING ELEMENTARY SCHOOL SOCIAL STUDIES (3)

PR: Admission to College of Education or CI. Methods of planning and teaching subjects related to the study of people and their relationships with other people and their environment.

ENGLISH EDUCATION**LAE 4325 METHODS OF TEACHING ENGLISH IN MIDDLE SCHOOL (3)**

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. Either this course or LAE 4642 must be taken concurrently with LAE 4530.

LAE 4464 ADOLESCENT LITERATURE FOR MIDDLE AND SECONDARY STUDENTS (3)

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.

LAE 4530 METHODS OF TEACHING ENGLISH: PRACTICUM (3)

PR: Senior standing or enrollment in Plan II Master's Program. Required concurrently with LAE 4325 or LAE 4642. Taken one semester (spring or fall) prior to internship.

LAE 4642 METHODS OF TEACHING ENGLISH: HIGH SCHOOL (3)

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 or two semesters prior to internship. Either this course or LAE 4325 must be taken concurrently with LAE 4530.

LAE 4905 INDEPENDENT STUDY: ENGLISH 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.)

LAE 4936 SENIOR SEMINAR IN ENGLISH EDUCATION (2)

PR: Senior standing. Synthesis of teacher candidate's courses in complete college program. Required concurrently with internship.

LAE 4940 INTERNSHIP: ENGLISH EDUCATION (1-12)

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 (3)

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 4620 or concurrent registration. 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 4333 FOREIGN LANGUAGE TEACHING IN THE SECONDARY SCHOOL (3)

PR: FLE 4314. Fluency in the target language and in English (or CC). 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 4314 or 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 SENIOR 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.)

EDG 4909 DIRECTED STUDIES

PR: Senior standing. To extend competency in teaching field. Offered only as a scheduled class.

INDUSTRIAL AND 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)

PR: CI. 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 4360 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 3060 THE TEACHER IN THE WORLD OF WORK

(3)

A study of educational efforts in preparing people for work, the relationship of a job to one's life style, and the concept of education as a life-long process.

EVT 4062C TEACHING IN INDUSTRIAL-TECHNICAL EDUCATION

(1-3)

An overview of the ITE instructor's roles and responsibilities concerning students, the school and the community and a look at the organization of vocational education, liability, and professionalism.

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)

PR: EIV 4360 or CI. 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 4312 TEACHING METHODS: HEALTH OCCUPATIONS

(4)

Equips health occupations instructors with professional competencies for classroom, laboratory and clinical settings. Includes selection of appropriate methods, planning and delivery of effective demonstrations, use of media and supervision of students in clinical areas.

EVT 4365 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 4367 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 4540 READING SKILLS IN ADULT AND VOCATIONAL EDUCATION

(2)

PR or CR: RED 4360. Students will study reading and communication skills as they relate to their particular content areas in Adult and Vocational-Technical Education. This course, along with RED 4360, satisfies State certification requirement pertaining to secondary reading.

EVT 4562 VOCATIONAL EDUCATION FOR SPECIAL NEEDS STUDENTS

(4)

PR: EVT 4365. 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 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.)

EVT 4946 SUPERVISED FIELD EXPERIENCE: INDUSTRIAL-TECHNICAL EDUCATION

(1-6)

PR: CI. Planned supervised functions in the area of specialization and co-ordinated with selected schools, government, offices, social agencies, businesses and industries on site. (S/U only.)

EVT 5285 OCCUPATIONAL SAFETY AND HEALTH (OSHA)

(3)

Planning and organizing safety and health course content to be included in occupational education programs in Florida. Content to be identified in and selected from Federal Registers, Department of Labor, Occupational Safety and Health Standards.

EVT 5369 PREPARATION AND DEVELOPMENT FOR TEACHING

(4)

The development of selected instructional materials, use of new educational media, performance evaluation instruments, and counseling techniques.

EVT 5664 SCHOOL COMMUNITY DEVELOPMENT

(4)

This course is an approach to identifying, assessing, and analyzing, individual, institutional and community needs for the pur-

pose of cooperative program planning, community involvement and public support.

MATHEMATICS EDUCATION

CGS 4010 COMPUTERS IN MATHEMATICS EDUCATION (3)

PR: CI, Admission to mathematics education program. Operation of computers. Basic and Logo languages. Examination and evaluation of software appropriate for teaching mathematics.

MAE 4320 TEACHING MATHEMATICS IN THE

MIDDLE GRADES (3)

PR: 18 semester hours of mathematics or CC. Techniques and materials of instruction in middle grades mathematics topics.

MAE 4330 TEACHING SENIOR HIGH SCHOOL MATHEMATICS (3)

PR: MAE 4320, EDG 4620 or CR in EDG 4620 and admission to teacher education program in mathematics. Techniques and materials of instruction in mathematics.

MAE 4551 READING THE LANGUAGE OF MATHEMATICS (2)

PR or CI: MAE 4330. Methods of teaching students to read the language of mathematics.

MAE 4905 INDEPENDENT STUDY: MATHEMATICS (1-4)

PR: Senior Standing. Specialized independent study determined by the student's needs and interests. May be repeated when subjects vary.

MAE 4909 DIRECTED STUDY: MATHEMATICS EDUCATION (1-3)

PR: Senior Standing. To extend competency in teaching field.

MAE 4936 SENIOR SEMINAR IN MATHEMATICS EDUCATION (2)

PR: Senior Standing; CR: MAE 4940. Synthesis of teacher candidate's courses in complete college program.

MAE 4940 INTERNSHIP: MATHEMATICS EDUCATION (1-12)

CR: MAE 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.)

MEASUREMENT AND RESEARCH

EDF 4430 MEASUREMENT FOR TEACHERS (3)

PR: Upper level standing. Concepts and skills related to planning, developing, administering, and interpreting classroom tests; interpreting standardized tests; and evaluating and reporting student progress.

PHYSICAL EDUCATION-ELECTIVE

HLP 3081 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.

PEL 1121 GOLF I (2)

Introductory experience in the sport of golf. Fundamental skills, information, strategy, and participation. (S/U only.)

PEL 1341 TENNIS I (2)

Introductory experiences in the sport of tennis. Basic skills, playing strategies, lecture, demonstration, and participation. (S/U only.)

PEL 1346 BADMINTON (2)

Progressive experiences in badminton, fundamental skills, strategy, information and participation. (S/U only.)

PEL 2122 GOLF II (2)

Continuation of PEL 1121. Emphasis on course play and refinement of strokes. (S/U only.)

PEL 2321 VOLLEYBALL (2)

Review and refinement of fundamental skills, presentation and practice of the various offensive strategies. (S/U only.)

PEL 2342 TENNIS II (2)

Continuation of PEL 1314L. Refinement of basic skills, supplementary strokes, greater emphasis on tactics and playing strategies. (S/U only.)

PEL 2441 RACKETBALL (2)

Development and refinement of the skills and strategies of Racketball with opportunity for competition and tournament play. (S/U only.)

PEL 2621 BASKETBALL (2)

Review and refinement of fundamental skills, presentation and practice of the various offensive and defensive strategies. (S/U only.)

PEM 1201 GYMNASTICS I (2)

Introductory experiences in the various gymnastics events. Opportunities to specialize in areas of personal interests. (S/U only.)

PEM 1461 FOIL FENCING (2)

Progressive experiences in the sport of Foil Fencing, fundamental skills, strategy, information, and participation. (S/U only.)

PEM 2116 STRENGTH AND AEROBIC DEVELOPMENT (2)

Varied activities designed to effect changes in body configuration and functional ability. (S/U only.)

PEM 2131 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 2202 GYMNASTICS II (2)

Continuation of PEM 1201. Extended opportunities to master the various gymnastics events. Competition and individual routines. (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 credit 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 2172 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 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.)

PEN 2172 SWIMMING II (2)

PR: PEN 1121 or equivalent. Continuation of PEN 1121. Special emphasis on development of endurance and efficient stroking. (S/U only.)

PET 3931 SELECTED TOPICS (1-3)

Topics offered are selected to reflect student need and faculty interest. May be repeated up to 9 credit hours.

PROFESSIONAL PHYSICAL EDUCATION

HSC 2400 FIRST AID (2)

Meets the American Red Cross certification requirements in standard and advanced first aid.

PEO 4941 WELLNESS INTERNSHIP (15)

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.)

PEP 3940 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.

PEP 3951 COMMUNICATION SKILLS FOR WELLNESS LEADERS (3)

PR: Completion of Semester 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 3101 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 2000 INTRODUCTION TO PHYSICAL EDUCATION**IN TODAY'S SOCIETY (3)**

PR: CI. An overview of the field of physical education, including the role of the physical education teacher and non-teaching career options. The role of play, sport, and physical education in today's society is emphasized and the competencies necessary to careers in physical education. (S/U only.)

PET 3012 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. Field work 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 3080 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 psychomotor performance. Open to non-majors.

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.

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 3422 INSTRUCTIONAL DESIGN AND CONTENT: MOVEMENT EXPERIENCES (3)

PR: CC. This course develops a variety of motor skills and includes the study of systems for analyzing movement. It prepares students to plan and conduct movement experiences in a wide variety of educational settings.

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 3640 ADAPTED PHYSICAL EDUCATION (3)

PR: CC. A study of characteristics, programming needs and teaching of physical education for handicapped students.

PET 3799 CAREER DECISION-MAKING AND PROFESSIONAL ETHICS (1)

PR: CC. Teacher certification career decision-making activities. Monitor and continue personal-professional development plan developed in previous semester. Ethical practices for teachers. Taken concurrently with PET 3943.

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 4141 TRENDS AND TASKS - ELEMENTARY PHYSICAL EDUCATION (3)

PR: CC. Current trends are evaluated from a historical and philosophical perspective. Non-teaching tasks are identified as part of the professional role. Evaluate and continue personal-professional development plan developed in previous semesters. Taken concurrently with Physical Education Internship: Elementary. Physical Education Majors only.

PET 4142 TRENDS AND TASKS - SECONDARY**PHYSICAL EDUCATION (1)**

PR: CC. Current trends are evaluated from a historical and philosophical perspective. Non-teaching tasks are identified as part of the professional role. Evaluate and continue personal-professional development plan developed in previous semesters. Taken concurrently with Physical Education Internship: Secondary. Physical Education Majors only.

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.

PET 4384 HEALTH-FITNESS APPRAISAL & EXERCISE PRESCRIPTION (3)

PR: CC. & PET 3352. Techniques in conducting health-fitness test 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 4622C CARE AND PREVENTION OF PHYSICAL INJURIES (2)

Principles and techniques of conditioning athletes for competition; prevention and care of injuries in physical education and athletic activities.

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 4933 SENIOR SEMINAR IN SECONDARY PHYSICAL EDUCATION (3)

PR: CC. Synthesis of teacher candidate's courses in complete college program. Reflective evaluation of teaching experience. Required concurrently with Associate Teaching in Physical Education: Secondary. Physical Education Majors only.

PET 4934 SENIOR SEMINAR IN ELEMENTARY PHYSICAL EDUCATION (3)

PR: CC. Synthesis of teacher candidate's course in complete college program. Reflective evaluation of teaching experience. Required concurrently with Associate Teaching in Physical Education: Elementary. Physical Education Majors only.

PET 4942 PHYSICAL EDUCATION 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 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 ASSOCIATE 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 ASSOCIATE 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.)

PET 4947C ATHLETIC TRAINING PRACTICUM (2)

PR: PET 4622. A ten-week training room practicum on skills in preventive strapping and review first aid and rehabilitation techniques, followed by a five-week practicum with local high schools or professional teams. Enrollment in these courses requires admission to the Physical Education program.

PSYCHOLOGICAL AND SOCIAL FOUNDATIONS**EDF 3122 LEARNING AND THE DEVELOPING CHILD (4)**

PR: A 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 classroom.

EDF 3214 HUMAN DEVELOPMENT AND LEARNING (3)

PR: A 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, micro-teaching.

EDF 3228 BEHAVIOR MODIFICATION TECHNIQUES (4)

PR: EDF 3214. Special techniques in behavior modification for children with learning difficulties. Minimum of two hours field experience per week required in addition to regular class hours.

EDF 3542 PHILOSOPHY OF EDUCATION (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 teaching.

EDF 3604 SOCIAL FOUNDATIONS OF EDUCATION (3)

PR: Admission to College of Education. 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.

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)

Interdependence of the public school and democracy in the United States and the responsibility of the school in fostering and strengthening basic democratic principles.

IDS 3115 VALUES AND CHOICE (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.

READING EDUCATION**RED 4334 READING IN THE SECONDARY SCHOOL (3)**

Basic course in Reading for Secondary school personnel.

RED 4360 READING IN SECONDARY CONTENT AREAS (2)

Provides basic instruction on phonics, word recognition, readability, interests, corrective procedures, reading behaviors, comprehension, etc. Offered only in conjunction with special content reading courses.

RED 4511 CORRECTIVE READING FOR THE CHILD (3)

PR: RED 4310 or equivalent. Procedures for meeting individual differences through diagnosis of needs, differentiated instruction, selected use of materials, and classroom organization.

SCIENCE EDUCATION**SCE 4305 COMMUNICATION SKILLS IN THE SCIENCE CLASSROOM (2)**

Reading and communication skills important in understanding scientific literature and communicating findings to others.

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 (3)

PR: Completion of 26 hours in approved science areas, EDG 4620 (or CR), and CC. Techniques and materials of instruction in secondary school sciences.

SCE 4936 SENIOR SEMINAR IN SCIENCE EDUCATION (2)

PR: Senior standing; CR: SCE 4940. Synthesis of teacher candidate's courses in complete college program.

SCE 4940 INTERNSHIP: SCIENCE EDUCATION (1-12)

CR: SCE 4936. One full semester of internship in a public or private school.

SCE 5937 SELECTED TOPICS IN SCIENCE EDUCATION (1-4)

May be repeated when topics are not duplicated.

SOCIAL SCIENCE EDUCATION**SSE 4333 TEACHING MIDDLE GRADE SOCIAL SCIENCE (3)**

This introductory course is concerned with the identification of the major content areas selected from the various social sciences. Topics related to selecting, organizing, and sequencing teaching materials and methods related to the unique problems of teaching teenage youth are studied.

SSE 4334 SECONDARY SOCIAL SCIENCE EDUCATION TEACHING METHODS (3)

PR: SSE 4333. This course is designed to identify and study selected techniques and strategies used in social science education instruction. Emphasis is placed upon the learner's ability to demonstrate skill in selecting methods, techniques, materials, and evaluative forms. Field work is a requirement.

SSE 4640 COMMUNICATION SKILLS IN THE SOCIAL STUDIES (2)

PR: CC. Specialized independent study determined by the student's needs and interests. May be repeated when subjects vary. (S/U only.)

SSE 4670 ECONOMICS USA: PRINCIPLES OF ECONOMICS FOR TEACHERS (3)

A television course focusing on content and teaching methodology 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 in complete college program.

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 busi-

nesses in a market economy. Teachers analyze economic/business concepts from the perspective of individuals currently operating businesses in the Tampa Bay area. Focus of the instruction is on the application of content to K-12 instructional programs.

SPECIAL EDUCATION

- EED 4011 INTRODUCTION TO BEHAVIOR DISORDERS (3)**
PR: EEX 3010, 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 management, service delivery models, trends and issues.
- EED 4905 INDEPENDENT STUDY: BEHAVIOR DISORDERS (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.)
- EED 4909 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 3010 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 3010 INTRODUCTION TO SPECIAL EDUCATION (3)**
Characteristics and needs of children who are learning disabled, emotionally disturbed, socially maladjusted, gifted, hearing impaired, mentally retarded, physically handicapped, speech impaired, and visually limited.
- 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 3010. 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 4846 CLINICAL TEACHING IN SPECIAL EDUCATION (3)**
PR: EEX 3010. Taken concurrently with EED 4941, ELD 4941, or EMR 4941. Effective teaching principles, instructional management procedures, and specialized teaching techniques for exceptional students.
- EEX 4243 EDUCATION OF THE EXCEPTIONAL ADOLESCENT AND ADULT (3)**
PR: EEX 3010 or equivalent or CI. Procedures for implementing educational programs for exceptional adolescents and adults. Topics include service delivery, curriculum, 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 3010. Taken concurrently with EED 4941, ELD 4941, or EMR 4941. Techniques to prevent, analyze, and management challenging and disruptive classroom behavior as well as teaching social skills.
- 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.)
- EEX 4909 DIRECTED STUDY: EXCEPTIONAL STUDENT EDUCATION (1-3)**
PR: Senior standing. To extend competency in teaching field. Repeatable up to 3 credit hours.
- EEX 4936 SENIOR SEMINAR IN EXCEPTIONAL STUDENT EDUCATION (2)**
PR: Senior standing; CR: EEX 4940. Synthesis of teacher candidate's courses in complete college program. Required concurrently with internship.

- EEX 4940 INTERNSHIP: EXCEPTIONAL STUDENT EDUCATION (1-10)**
CR: EEX 4936. One full semester of internship in an accredited public or private school. (S/U only.)
- EEX 5705 SEMINAR IN PRESCHOOL HANDICAPPED (2)**
PR: CI. Seminar about the needs, interventions, and the coordination of services for preschool handicapped children and their families. May be repeated up to 6 credit hours.
- EEX 5752 WORKING WITH FAMILIES: A PLURALISTIC PERSPECTIVE (3)**
PR: Graduate standing or CI. The impact of the socio/cultural environment on the education of at-risk and handicapped children; family systems theory, principles of multi-cultural education, strategies for working effectively with families of school-age children, diverse cultures and family structures represented in school.
- EGI 4941 UNDERGRADUATE SUPERVISED PRACTICUM IN GIFTED STUDENT EDUCATION (1-6)**
Organized, supervised experiences with gifted children. Specific experiences may be either a combination of observation and assistance with gifted children or individualized projects.
- EGI 5051 NATURE AND NEEDS OF THE GIFTED (3)**
Characteristics and educational needs of gifted children and youth. Emphasis is on five types of giftedness as defined by National Department of Education (1) intellectual giftedness, (2) specific academic aptitude, (3) visual and performing arts, (4) leadership and (5) kinesthetic.
- EGI 5325 CREATIVE PROBLEM SOLVING FOR THE CHILD (3)**
Exploration of the concept of creativity, its factors, measurement, and application to education. Opportunities are given to work with children in a laboratory setting and to prepare materials to be used with small groups of children.
- ELD 4011 INTRODUCTION TO SPECIFIC LEARNING DISABILITIES (3)**
PR: EEX 3010 or CI. Characteristics, needs and abilities of children with SLD. Emphasis is on theories, issues, trends, and philosophy of problems for such children.
- ELD 4905 INDEPENDENT STUDY: SPECIFIC LEARNING DISABILITIES (1-3)**
PR: CI. Specialized independent study determined by 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.
- ELD 4941 UNDERGRADUATE SUPERVISED PRACTICUM IN SLD (1-6)**
PR: EEX 3010 and major in Specific Learning Disabilities. 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 4011 INTRODUCTION TO MENTAL RETARDATION (3)**
PR: EEX 3010. Introduction to the classification, diagnosis, characteristics, and treatment of the mentally retarded.
- EMR 4905 INDEPENDENT STUDY: MENTAL RETARDATION (1-3)**
PR: CI. Specialized independent study determined by the student's needs and interests. May be repeated when subjects vary. (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 3010 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 3010 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.

EVI 5311 THE VISUALLY HANDICAPPED IN THE CLASSROOM (3)

PR: EEX 3010 or CI. The visually handicapped in the classroom, structure, hygiene and educational implications.

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 procedures and teaching 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.

COLLEGE OF ENGINEERING

UNIVERSITY OF SOUTH FLORIDA - 1993/94 UNDERGRADUATE CATALOG

CHEMICAL ENGINEERING

Chairperson: C.A. Smith; *Professors:* J.C. Busot, L. Garcia-Rubio, A. K. Sunol, J.A. Llewellyn; *Associate Professors:* S.W. Campbell, R.A. Gilbert, W.F. Lee, III, A.K. Sunol; *Assistant Professors:* V.R. Bhethanabotla, S.W. Campbell; *Courtesy Faculty:* R.S. Braman, J.E. Fernandez, G.R. Meira, K.B. Seifert.

CIVIL ENGINEERING AND MECHANICS

Chairperson: W. F. Echelberger, Jr.; *Professors Emeriti:* B.E. Ross; *Professors:* M.W. Anderson, R.P. Carnahan, W.C. Carpenter, W. F. Echelberger, Jr., J.E. Griffith, S.C. Kranc, L.W. Oline, A. A. Sagues, *Associate Professors:* A.R. Kaub, R. J. Murphy, R. Sen, R. I. Stessel; *Assistant Professors:* J.F. Devine, J.T. Franques, Jr., M. Gunaratne, R. D. Mines, Jr., M.A. Ross, A. Zayed; *Courtesy Faculty:* F.R. Jones, T.L. Miller, G.L. Brosch, S.E. Polzin, E. E. Kalmaz, J. B. Rose, F. L. Young.

COMPUTER SCIENCE AND ENGINEERING

Chairperson: A. Kandel; *Professors:* H. Glass, M. R. Varanasi; *Associate Professors:* S. A. Al-Arian, K. W. Bowyer, D. B. Goldgof, L. O. Hall, P. M. Maurer, L. Piegl, N. Ranganathan; *Courtesy Appointments:* L. Clarke, P. Kegelmeyer, R. Mehrotra.

ELECTRICAL ENGINEERING

Chairperson: E.K. Stefanakos; *Dean Emeritus:* G.A. Burdick; *Professors:* C.T.M. Chen, Y. Chiou, S.J. Garrett, R.E. Henning, V.K. Jain, L.L. Jastrzebski, M.G. Kovac, G. Lachs, J.J. Lagowski, D.L. Morel, A.D. Snider, T.E. Wade; *Associate Professors:* K.A. Buckle, A.R. Gondeck, D.C. Keezer, D. Landis, H.A. Nienhaus, P.H. Wiley; *Assistant Professors:* J.M. Ammons, J.G. Cottle, > P. Dunleavy, A. Hoff, F.D. King, J.T. Leffew, R. Sankar; *Lecturers:* H.C. Gordon.

INDUSTRIAL AND MANAGEMENT SYSTEMS ENGINEERING

Chairperson: P.E. Givens; *Professor Emeritus:* R. J. Wimmert; *Professors:* J.L. Brown, P. E. Givens, L.A. Weaver; *Associate Professors:* S. K. Khator, O. G. Okogbaa, L. C. Leung; *Assistant Professors:* A. L. Callahan, W.A. Miller; *Lecturer:* D. K. Gooding.

MECHANICAL ENGINEERING

Chairperson: R.H. Howell; *Professors:* R.A. Crane, S.J. Ying; *Associate Professors:* A. K. Kaw, J.L.F. Porteiro, S. Wilkinson, *Assistant Professors:* G. H. Besterfield, D. P. Hess; *Courtesy Appointment:* L. A. Scott.

BASIC AND INTERDISCIPLINARY ENGINEERING

EGN 1002 ENGINEERING ORIENTATION (0)

The role of engineering in society, characteristics of different fields of engineering, required preparation for engineering careers, techniques and approaches used by engineers in their profession. (S/U only.)

EGN 2200 ENGINEERING WITH COMPUTERS (2)

PR: EGN 2210. Fundamental concepts in engineering and computer applications. Examples chosen from various areas of engineering to illustrate design modelling and analysis with computer assistance. Some topics involve laboratory.

EGN 2210 FORTRAN FOR ENGINEERS (3)

PR: MAC 3281. The FORTRAN programming language will be used to analyze and solve typical Engineering problems on modern computing equipment. The student will learn the syntax of the FORTRAN programming language; the practical utilization of modern computing equipment and operating systems; general problem solving techniques; and modern programming practices.

EGN 3311 STATICS (3)

PR: PHY 3048. Principles of statics, mechanical equilibrium, forces, moments, plane trusses. Lec.-pro.

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, Hooke's Law; torsion, beam, column analysis; combined stresses; inelastic effects, limit design. Lec.

EGN 3331L MECHANICS OF MATERIALS LABORATORY (1)

CR: EGN 3311. Experiments in mechanics of deformable bodies. Lab.

EGN 3343 THERMODYNAMICS I (3)

PR: PHY 3049. Axiomatic introduction to thermodynamic concepts of energy, entropy, work and heat. Properties of ideal and real substances. Applications: power production and refrigeration, phase equilibria.

EGN 3353C BASIC FLUID MECHANICS (3)

PR: EGN 3311, CR: EGN 3321. Fundamental and experimental concepts in ideal and viscous fluid theory; momentum and energy consideration, introduction to hydraulics, pipe flow. Lecture.

EGN 3365L 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)

PR: PHY 3049, PHY 3049L, CR: MAP 4302. A course in linear passive circuits. Physical principles and modes. Transient and steady-state analysis.

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)

PR: PHY 3049, EGN 4450. Dynamic analysis of electrical, mechanical, hydraulic and thermal systems; Laplace transforms; numerical method; use of computers in dynamic systems.

EGN 3443 ENGINEERING STATISTICS I (3)

PR: MAC 3283. 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 3365L. Applications and structure property relationships of commonly used engineering materials. Steel, nonferrous alloys and their welding, heat treatment and processing. Introduction to ceramic and polymeric materials.

EGN 4420 NUMERICAL METHODS OF ANALYSIS (2)

PR: MAP 4302, EGN 2210. Computation methods of analysis for engineering problem solving by use of digital computers, matrix methods, differential equations, curve fitting, integral equations.

EGN 4450 INTRODUCTION TO LINEAR SYSTEMS (2)

PR: MAP 4302. Study and application of matrix algebra, differential equations and calculus of finite differences.

EGN 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. (S/U only.)

EGN 5422 ENGINEERING ANALYSIS II (3)

PR: MAC 4302 or CC. Power series solutions for ordinary differential equations, Sturm-Liouville theory, special functions. Vector methods with generalized coordinates. Separation of variables for partial differential equations. Green's functions. Calculus of variations. Numerical methods.

EGN 5423 ENGINEERING ANALYSIS III (3)

PR: CC or EGN 4450. Finite fields and coding applications. Probabilities of error detection and correction. Advanced matrix algorithms: LU and QR factorizations, least-squares, pseudoinverses.

EGN 5424 ENGINEERING ANALYSIS IV (3)

PR: MAC 4302 or CC. Analytic functions, conformal mapping, residue theory, Laurent series, transforms. Applications to various problems in engineering and physics.

EGN 5425 ENGINEERING ANALYSIS V (3)

PR: EGN 4450 and MAP 4302, or CC. Survey of theory and software for matrix computations: factorization methods, least squares and pseudoinverses, eigenvector algorithms. Special matrices and representations for control system and finite element applications.

EGS 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)

PR: EGN 3343. Mass and energy balances on steady state systems with and without chemical reactions. Combustion processes. Psychrometrics.

ECH 3264 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 3264L TRANSPORT PROCESSES LAB I (0)

PR or CR: ECH 3264C or CI. Engineering laboratory experiments in fluid flow and heat transfer. Formal oral and written presentations.

ECH 3702 INSTRUMENT SYSTEMS I (4)

PR: EGN 3373. Applications of analog and digital devices to instrumentation problems in chemical and mechanical engineering. Basic electrical measurements. Computer assisted measurements and process monitoring.

ECH 4123 PHASE AND CHEMICAL EQUILIBRIA (3)

PR: ECH 3023 or CHM 4410. Correlation of thermodynamic properties of real systems and solutions. Description of multi-component, multiphase systems in equilibrium. Applications to separation processes and reactor design. Lecture/laboratory.

ECH 4244L CHEMICAL ENGINEERING LABORATORY II (2)

PR: ECH 3702, EML 3303, ECH 3264L, ECH 4123L, ECH 4415, ECH 4415L, or CI. Engineering laboratory experiments in Chemical Engineering Processes: fluid flow, heat transfer, phase and chemical equilibria, and reacting systems.

ECH 4265 TRANSPORT PROCESSES II (3)

PR: ECH 3264. Design, sizing, and selection of mass transfer equipment. Absorption, distillation, extraction, humidification. Lecture/laboratory.

ECH 4323 AUTOMATIC CONTROL I (3)

PR: ECH 3264, ECH 4265. Analysis of factors affecting process dynamics. Instrumentation required for control system design. Modes of control. Discrete logic operations. Stability. Design case studies. Lec./Lab.

ECH 4415 REACTING SYSTEMS (3)

PR: ECH 4123, CHM 4412. CR: EML 3303. Equilibrium and rate phenomena in reacting systems. Description of homogeneous chemical reactors for design and control. Lecture/laboratory.

ECH 4415L REACTING SYSTEMS LAB (0)

PR or CR: ECH 4415 or CI. Engineering laboratory experiments in reacting systems. Formal oral and written presentations.

ECH 4605 PROCESS ECONOMICS AND OPTIMIZATION (3)

PR: ECH 3023, 3GN 4450, or CI. Methods of economic analysis to determine profitability of process investments; replacement and alternative analysis. Single and multivariable optimization using analytical and numerical methods. Process and equipment design under risk and uncertainty.

ECH 4615 PLANT DESIGN AND ECONOMICS (3)

PR: ECH 4415, ECH 4265, PR or CR: ECH 4323 or CI. Methods of cost estimation and profitability measures. Analysis and synthesis of optimal chemical processing routes. Design of chemical process equipment. Introduction to computer-aided design. Case studies.

ECH 4905 INDEPENDENT STUDY (1-4)

PR: CI. Specialized independent study determined by the student's needs and interests. May be repeated up to 9 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 5158C SEMINAR IN THE PHILOSOPHY OF THERMODYNAMICS (2)

PR: CI. Philosophical and technical aspects of contemporary thermodynamics, including entropy, time, irreversible processes, complex structures, and analysis of biological systems. Includes topics in philosophy of science. Open to majors and non-majors.

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 4323 or CI. The course covers the root locus and frequency response methods. The techniques of ration, cascade feed forward, 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 deadtime compensations.

ECH 5740 THEORY AND DESIGN OF BIOPROCESSES (4)

PR: Senior standing in engineering or CI. Introduction to biotechnology, including applied microbiology, enzyme technology, biomass production, bioreactor design, and transport processes in biosystems. Open to majors and non-majors with CI.

ECH 5742 PHARMACEUTICAL ENGINEERING (2)

PR: Senior or graduate standing in engineering or CI. Introduction to pharmaceutical engineering, including dosage forms (tablets, capsules, powders, liquids, topical forms, and aerosols), excipients, regulatory issues, clinical studies, and good manufacturing practices.

ECH 5746 INTRODUCTION TO BIOMEDICAL ENGINEERING (3)

PR: Senior standing in engineering or CI. Introduction to biomedical engineering, including transport phenomena in biomedical systems, biomaterials, biomedical instrumentation, prosthetic devices, and clinical engineering. Open to non-engineering students with CI.

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 majors and non-majors with CI. May be repeated for credit as subjects vary.

ECH 5748 SELECTED TOPICS IN BIOMEDICAL ENGINEERING (1-3)

PR: CI. Selected topics in biomedical engineering, including biomedical materials, biodynamics of circulation, separation processes in biomedical systems, and artificial organ systems. May be taken by non-engineering students with CI. May be repeated for credit as subjects vary.

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 ENGINEERING AND MECHANICS

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)

PR: 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 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 4100 STRUCTURES AND THE URBAN ENVIRONMENT FOR NON-ENGINEERS

(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 4104 ADVANCED MECHANICS OF MATERIALS

(3)

PR: EGN 3331, MAP 4302. Analytical analysis of the mechanical behavior of deformable solids; special topics in beam theory, elastic and inelastic methods, plastic limit analysis flexure and torsion of beams; introduction to finite element computer methods.

CES 4141 MATRIX STRUCTURAL ANALYSIS

(3)

PR: CES 3102, EGN 4450. Analysis of structures by use of matrix techniques and the digital computer. An introduction to finite analysis techniques.

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 AISC 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 Building Code Requirements for reinforced concrete: Design of flexural reinforcement in beams and slabs, design of shear reinforcement, design of concrete columns.

CES 4704 STRUCTURAL DESIGN-CONCRETE

(2)

PR: CES 4702. Design of concrete structures.

CES 4820C TIMBER AND MASONRY DESIGN

(3)

PR: CES 3102, CES 4702. Fundamentals of timber design including beams, columns, connections and formwork. Introduction to masonry design including design of beams, walls, columns, and pilasters.

CES 5105C ADVANCED MECHANICS OF MATERIALS I

(3)

PR: EGN 3331, MAP 4302. Analytical study of the mechanical behavior of deformable solids. Basic concepts, stress and strain transformations, special topics in beams, introduction to theories of elasticity, and bending of thin plates.

CES 5209C STRUCTURAL DYNAMICS

(3)

PR: CES 3102. Behavior of structural components and systems when subjected to periodic dynamic loads.

CES 5715C PRESTRESSED CONCRETE

(3)

PR: CI. Fundamental principles of prestressing; calculation of losses; stress analysis and design of simple beams for flexure and shear. Examples of prestress applications.

CGN 3021L CIVIL ENGINEERING LABORATORY

(2)

PR: CES 3102, EGN 3331, EGN 3354C, EGN 3365. A laboratory experience in departmental facilities including the subject areas of structures, materials, fluids, transportation, soils, engineering mechanics, environmental engineering, and computer assisted data acquisition.

CGN 3801 DESIGN AND PRACTICE

(2)

PR: EGN 3353C, EGN 3365L, EGN 3331. Methodology of the design process in civil engineering. Includes problem definition, criteria, data collection and analysis, information sources, planning, specifications, and presentation of technical information.

CGN 4122 ENGINEERING CONTRACTS, SPECIFICATIONS AND ETHICS

(3)

Focus on engineering responsibilities in the technical aspects of preparing contracts and specifications. Objectives are to teach the student their legal and ethical responsibilities in the preparation of contracts and specifications. Make the student aware of

technical problems in the preparation of specification; bid documents and contracts. Emphasis of ethics of engineer-client agreements.

CGN 4851 CEMENT AND CONCRETE DESIGN

(2)

PR: EGN 3365L. Classifications and production of cements. Design and testing of concrete mixes to produce desired properties.

CGN 4905 INDEPENDENT STUDY

(1-5)

PR: CC. Specialized independent study determined by the students' needs and interests. May be repeated up to 15 credit hours. (S/U only.)

CGN 4911 RESEARCH IN CIVIL ENGINEERING AND MECHANICS

(1-4)

PR: CC.

CGN 4914 SENIOR PROJECT

(2)

PR: CI. Problem-solving experience and training for seniors in research and/or design projects. Written final reports are required.

CGN 4933 SPECIAL TOPICS IN CIVIL ENGINEERING AND MECHANICS

(1-5)

PR: CI. New technical topics of interest to civil engineering students.

CGN 5933 SPECIAL TOPICS IN CIVIL ENGINEERING AND MECHANICS

(1-5)

PR: CI. New technical topics of interest to civil engineering students. May be repeated up to 6 credit hours.

CWR 4103 WATER RESOURCES ENGINEERING

(3)

PR: CWR 4202. A study of the engineering principles involved in sustaining and managing the quantity and quality of water available for human activities with particular emphasis on surface water and ground water hydrology.

CWR 4202 HYDRAULICS

(3)

PR: EGN 3353C. Fundamental and applied aspects of pipe flow, free surface flow, and unsteady flow for hydraulic systems.

CWR 4810 HYDRAULIC DESIGN

(2)

PR: CWR 4103, 4202. Design of hydraulic systems, including drainage, water supply, and flood control.

CWR 4811 FLUID SYSTEMS DESIGN

(2)

PR: CWR 4202. Design of fluid systems. Consideration of pressure, drag, and gravity forces.

EMA 4324 CORROSION OF ENGINEERING MATERIALS I

(3)

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.

EMA 4325 CORROSION CONTROL SYSTEM DESIGN

(2)

PR: EMA 4324. Design of corrosion prevention systems and prediction of the behavior of materials in various corrosive environments.

EMA 4604 PROCESSES IN MATERIALS ENGINEERING

(3)

PR: EGN 3365L. Introduction to the basic theories of solidification and ultrapurification of materials, and discussion of the primary methods of shaping and forming materials.

EMA 4703 FAILURE ANALYSIS AND PREVENTION

(3)

PR: EGN 3365L, EGN 3331. Failure criteria and the analysis of failures produced by combined states of stress. Principles of fracture mechanics and fatigue. Damage to materials produced by various environments including elevated temperatures and radiation.

EMA 4704 SELECTION AND APPLICATION OF ENGINEERING MATERIALS

(2)

PR: EGN 3365L. Determination of the property requirements for the utilization of materials in specific applications, comparison of properties of metals, plastics, and ceramics, the effect of heat treatment, etc., on materials, property limitations.

ENV 3001 ENVIRONMENTAL ENGINEERING

(3)

CR: ENG 3353C. 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 4004L ENVIRONMENTAL ENGINEERING LABORATORY

(1)

PR: CHM 3200, ENV 3001. Laboratory experience in the measuring of environmental parameters.

ENV 4101 AIR POLLUTION CONTROL

(3)

PR: EGN 3363C. Behavior and effects of atmospheric contami-

nants and the principles of making measurements in the air environment. Basic concepts of meteorology and control technology are discussed. Regulatory aspects and air pollution standards are covered.

- ENV 4417 WATER QUALITY AND TREATMENT (3)**
PR: CWR 4202. 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 (2)**
PR: EGN 3353C. Corequisite ENV 4503. A design oriented course which utilizes the theory obtained in the Unit Operations course to design both industrial and domestic water treatment and water transport systems. It emphasizes the design procedures normally used in engineering practice.
- ENV 4502 ENVIRONMENTAL UNIT OPERATIONS (3)**
PR: EGN 3343, EGN 3353C. CR: ENV 3001 The theory and the design of unit operations normally used in the practice of environmental engineering, such as agitation and mixing of liquids, filtration, leaching, gas absorption, sedimentation and clarification, drying, and evaporation.
- ENV 4503 ENVIRONMENTAL UNIT PROCESSES (3)**
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 (2)**
PR: ENV 4503. Emphasis is placed upon design practice and economics for a comprehensive design of a wastewater system and a collection system.
- ENV 4552L ENVIRONMENTAL UNIT OPERATIONS AND PROCESSES LABORATORY (1)**
PR: EGN 3353C. 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 5105 AIR RESOURCE MANAGEMENT (3)**
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 (3)**
PR: CI. Treatment practices and design of waste handling systems to include: land treatment, pre-treatment, incineration, resource recovery, recycle, waste elimination.
- ENV 5614 ENVIRONMENTAL RISK ANALYSIS (3)**
PR: CI. Study of comprehensive application of risk analysis techniques for environmental control and protection purposes.
- SUR 3140C ENGINEERING LAND SURVEYING (3)**
Principles of land surveying for engineering practice. Traverses, levels, boundary surveys, route surveys, coordinate geometry, and mapping.
- TTE 4004 TRANSPORTATION ENGINEERING I (3)**
PR: EGN 3321. Principles of surface transportation system 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 (3)**
PR: TTE 4004, SUR 3140. Techniques for the geometric route design of surface transportation systems; horizontal and vertical alignments. Spiral curves, superelevations 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 (2)**
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.

COMPUTER SCIENCE AND ENGINEERING

- CAP 5400 DIGITAL IMAGE PROCESSING (3)**
PR: EEL 4851 Data Structures, 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 (3)**
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 5682 EXPERT AND INTELLIGENT SYSTEMS (3)**
Basic concepts, techniques and tools for the design and implementation of expert and intelligent systems. Knowledge representation, inference methods, knowledge acquisition methods, and some advanced concepts. Tools to facilitate construction of expert and intelligent systems.
- CAP 5690 FUNCTIONAL PROGRAMMING LANGUAGES (3)**
PR: COP 4020. The properties of functional and applicative languages; comparison with conventional languages, features and examples of applicative languages, LISP, KRC and Forth. Implications to computer architecture.
- CDA 4100 COMPUTER ORGANIZATION AND ARCHITECTURE (3)**
PR: EEL 4705, or CC. CR: CDA 4103. Elements of computer systems; processors, memories and switches. Register transfer presentation of a computer. ALUs and their implementation. The control unit. Memory and I/O. Hardware support of operation system functions.
- CDA 4103 MINICOMPUTER LABORATORY (1)**
CR: CDA 4100. Minicomputer organization and programming.
- CDA 4203 COMPUTER SYSTEM DESIGN (3)**
PR: EEL 4705, EEL 4705L. Design Methods, Top-Down design, Building Blocks, Instruction and addressing models, minicomputer design, interfacing.
- CDA 4203L COMPUTER SYSTEM DESIGN LAB (1)**
PR: EEL 4705 and EEL 4705L. CR: CDA 4203. This lab introduces the student to the concept of system design. Several projects are given including building timing circuits, memory-based and communication circuits, and microcomputer-based designs.
- CDA 5405 MODELING COMPUTER SYSTEM PERFORMANCE I (3)**
PR: Knowledge of basic calculus and probability theory. Ability to program computers in a higher level language. Development of models based on queueing theory for evaluation of computer system performance. Analysis of open and closed network of queues. Operational analysis. Asymptotic bounds analysis.
- CDA 5406 MODELING COMPUTER SYSTEM PERFORMANCE II (3)**
PR: CDA 5405. Continuation of performance Models I. Emphasis on applications. Approximation techniques. Practical limitations. Numerical accuracy and stability. Students will develop a practical modeling program and explore its use.
- CEN 4020 SOFTWARE ENGINEERING (3)**
PR: COP 3002, COP 3000L or CC. An overview of software engineering techniques for producing high quality software. Student will participate in a software development team.
- CEN 4721 USER INTERFACE DESIGN (3)**
An examination of factors influencing the usability of a computer system. Topics include input and output devices, graphic and multi-media interfaces, formats for interaction/communication between computer and user, and the evaluation of usability.
- CIS 4250 ETHICAL ISSUES AND PROFESSIONAL CONDUCT - 6A (3)**
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 (1-5)**
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 (2)**
Projects intended to develop individual interests and abilities in computer science involving either computer hardware or software aspects of a well defined proposal.
- CIS 4930 SPECIAL TOPICS IN COMPUTER SCIENCE I (1-4)**
PR: CC.

CIS 4935 COMPUTER SCIENCE AND ENGINEERING SEMINAR (2)
PR: CC. This is a seminar course for majors in Computer Science and Engineering. May be repeated up to 4 credit hours.

COP 3000L COMPUTER SCIENCE LABORATORY (1)
CR: COP 3002. Laboratory for implementation of algorithms in a general purpose computer language.

COP 3002 INTRODUCTION TO COMPUTER SCIENCE (3)
PR: EGN 2210 or CI. CR: COP 3000L. Introduction to the concepts of algorithmic formulation of problems for computer solution and the general abstract operations used in these formulations.

COP 3510 PROGRAMMING CONCEPTS (3)
PR: COP 3000L, COP 3002 or CC. An examination of a modern programming language emphasizing programming concepts and design methodology.

COP 4020 PROGRAMMING LANGUAGES (3)
PR: EEL 4851C and COP 4400. An introduction to programming languages, survey of language types and design of translators and interpreters.

COP 4025 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 4400 COMPUTER SYSTEMS (3)
PR: COP 3002, COP 3000L or CC. Principles of computer organization, machine and assembly language programming.

COP 4600 INTRODUCTION TO SYSTEMS PROGRAMMING (3)
PR: EEL 4851C, COP 4400. Introduction to systems programming. Design of operating systems. Concurrent processing, synchronization, and storage management policies.

COP 5010 TOPICS IN COMPUTERS AND PROGRAMMING (4)
PR: CI. Survey of topics in machine organization systems programming.

COT 3100 INTRODUCTION TO DISCRETE STRUCTURES (3)
PR: MAC 3281 or equivalent. Introduction to set algebra, propositional calculus and finite algebraic structures as they apply to computer systems.

COT 4210 INTRODUCTION TO AUTOMATA THEORY AND FORMAL LANGUAGES (3)
PR: EEL 4851C or CC. Introduction to the theory and application of various types of computing devices and the languages they recognize.

COP 4312 SYMBOLIC COMPUTER FOR ARTIFICIAL INTELLIGENCE 930
PR: COP 3000L, COP 3002. 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.

COT 4400 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 or CC; for CS & E students CR or PR: COP 3002. 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)
PR: EEL 4705 and EEL 4705L. CR: EEL 4743L. Functional Description. Arithmetic and Logic capabilities. Control and Timing. Interrupts and priority systems. Software design and documentation. Distributed function processing.

EEL 4748 MICROPROCESSOR-BASED SYSTEM DESIGN AND APPLICATION (3)
PR: EEL 4757, 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 soft-

ware, network operating systems, and reliability enhancement techniques.

EEL 4851C DATA STRUCTURES (3)
PR: COP 3002, COP 3000L. Fundamentals of data organization for purposes of program efficiency, clarity and simplicity will be addressed.

EEL 4852C DATA BASE SYSTEMS (3)
PR: COP 4400 and 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: CC. An introduction to the evolution of computer graphics including point-plotting, line drawing, two-dimensional transformations and graphics software packages.

ELECTRICAL ENGINEERING

EEL 3100 NETWORK ANALYSIS AND DESIGN (3)
PR: EGN 3373. A second course in linear circuit analysis and design. Transient and steady-state responses of passive R-L-C networks to various functions.

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 3410, 4411 FIELDS AND WAVES I, II (3,3)
PR: MAP 4302, PHY 3049, PHY 3049L. A basic introduction to electromagnetic field theory, including static and dynamic electromagnetic fields.

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 4108 DISTRIBUTED NETWORKS (3)
PR: EEL 3410, EEL 3100. Transmission lines, standing waves, impedance, waveguides.

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 4351C SEMICONDUCTOR DEVICES (3)
PR: EEL 3302. An introduction to the fundamentals of semiconductor materials and semiconductor device operation.

EEL 4411 See EEL 3410

EEL 4511 COMMUNICATION ENGINEERING (2)
PR: EEL 4512. Analog telephone network; digitalization. Digital transmission and multiplexing. Digital switching; space division switching, time-division switching, space-time switching; analog environment. Broadcasting and recording (audio and video); television systems, cable and satellite TV.

EEL 4511L COMMUNICATIONS LABORATORY (1)
CR: EEL 4511. Experiments in amplitude modulation, frequency modulation.

EEL 4512C INTRODUCTION TO COMMUNICATION SYSTEMS (3)
PR: EEL 3100. Signals and Fourier transforms in communication systems; measure of information in signals. AM, FM, and PM modulation and demodulation systems. Sampling, quantization and PCM. Data communication; terminals, and modems; repeaters, timing circuits, and interfaces. Local networks.

EEL 4567 ELECTRO-OPTICS (3)
PR: EEL 3301L, EEL 3302L, EEL 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 4567L ELECTRO-OPTICS LABORATORY (1)
CR: EEL 4567. Experiments in electro-optics, including sources, detectors, radiometry, optical and electronic components, and fiber optic systems.

EEL 4657 LINEAR CONTROL SYSTEMS (3)
PR: EEL 3100. Introduction to analysis and design of linear

- feedback control systems. Covers block diagram, flow charts. Bode, Nyquist, and root locus techniques.
- EEL 4705 LOGIC DESIGN (3)**
PR: EGN 3373. Non-majors may enroll with CI. Binary number system; 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**
PR: EEL 4705 and EEL 4705L. CR: EEL 4743L. Functional Description. Arithmetic and Logic capabilities. Control and Timing. Interrupts and priority systems. Software design and documentation. Distributed function processing.
- 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. (S/U only.)
- EEL 4906 DESIGN PROJECT (2)**
PR: Senior standing. An individual or team project involving the design of an electrical component system. Required of all electrical seniors.
- EEL 4935, 4936, 4937 SPECIAL ELECTRICAL TOPICS I, II, III (1-4 each)**
- EEL 5250 POWER SYSTEM ANALYSIS (3)**
Analysis technique for AC power systems.
- EEL 5344C 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 5351 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 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)**
PR: EEL 4305. Design of analog circuits for CMOS/VLSI design. Op Amps, comparators, D to A and A to D converters. Switched capacitor filters. Analog simulation.
- EEL 5358 INTRODUCTION TO PLASMA PROCESSING AND TECHNOLOGY (3)**
PR: Prior knowledge in microelectronics and electromagnetics required at the level of EEL 4305 and EEL 4411 or the equivalent. A graduate level self contained introduction to plasma manufacturing methods employed in semiconductor fabrication. Covers physics and chemistry pertaining to plasma processes.
- 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 5572 C 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 5592 VIDEO TRANSMISSION 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 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 telecommunications and voice processing.
- EEL 5820 IMAGE PROCESSING (3)**
PR: EEL 5755 or CC. Two-dimensional signal processing 2-D, random fields. Image data compression; image enhancement, and object detection. Image processing by computers, applications of image processing.
- EEL 5935, 5936, 5937 SPECIAL ELECTRICAL TOPICS I, II, III (1-3 each)**
PR: CC..
- ELR 3301L LABORATORY 1 (1)**
PR: EGN 3373.
- ELR 3302L LABORATORY 2 (1)**
PR: ELR 3301L and EEL 3302, CR: EEL 4305.
- ELR 4305L LABORATORY III (1)**
PR: ELR 3302L; EEL 4305.
- ELR 4306L LABORATORY 4 (1)**
PR: ELR 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; CR: AGC 3074. Operation analysis and workspace design, work measurement, standard data, ergonomics, and labor costing.
- EIN 4313C HUMAN FACTORS (3)**
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. Includes: forecasting and inventory control models, scheduling and sequencing, MRP, CPM/PERT, and resource requirements.
- 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.
- EIN 4365 FACILITIES DESIGN II (3)**
PR: EIN 4364. CAD/CIEM, 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: EGN 3365. The study of basic manufacturing processes and precision assembly. CAD/CAM including NC programming.
- EIN 4601L AUTOMATION AND ROBOTICS (3)**
PR: EIN 4411. 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. A study of the human physiological limitations encountered in the design, analysis and evaluation of man-machine systems.
- EIN 5253 HUMAN PROBLEMS IN AUTOMATION (3)**
The study of analysis of combined human operations, automated processes, and robotics in industrial environments.
- EIN 5301C INDUSTRIAL ENGINEERING CONCEPTS (3)**
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 5388 TECHNOLOGY 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 autoregressive/moving average methods are presented. Integrating forecasting and planning into the engineering organization is discussed.
- EIN 5914, 5915, 5916 SPECIAL INDUSTRIAL PROJECTS I, II, III** (1-3 each)
PR: CC.
- ESI 4161C 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 CAD/CAM System.
- ESI 4221 INDUSTRIAL STATISTICS AND QUALITY CONTROL** (3)
PR: EGN 3443. 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)
PR: EGN 3443. Probabilistic models in Operations Research. Discrete and continuous time processes, queueing models, inventory models, simulation models, Markovian decision process and decision analysis.
- ESI 4523 INDUSTRIAL SYSTEMS SIMULATION** (3)
PR: ESI 4313. A study of the development and analysis of computer simulation models: Monte Carlo, time-slice, and next-event. Introduction to special purpose simulation languages.
- ESI 4905 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.)
- ESI 4911 SENIOR PROJECT** (2)
PR: EIN 4364, CR: EIN 4333, ESI 4523. 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, queueing, 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)
PR: ESI 4523 or equivalent. Design of discrete and continuous simulation models. Model validation and verification. Statistical analysis of simulation model output.

COMPUTER SERVICE COURSES

(No credit for Engineering Majors)

- CGS 2080 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 3062SC 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 3425 SC APL PROGRAMMING** (3)
PR: CGS 3060. The use of the APL language as an interactive mode to solve business and scientific programs.
- CGS 3462 SC PASCAL PROGRAMMING** (3)
PR: CGS 3060. Structured programming implemented with the PASCAL language. Emphasis on program structure and data manipulation.
- CGS 3463 SC GPSS SIMULATION** (3)
PR: COP 3200. The development and execution of discrete event simulation models of real world systems using the GPSS language.
- CGS 3464 SC SIMSCRIPT SIMULATION** (3)
PR: CGS 3463. The use of the Simscript language in discrete event simulation. Development of simulation models of real world systems.
- CGS 4120 SC COMPUTER APPLICATIONS** (3)
PR: COP 3200. Applications of various high level languages to current scientific and engineering problems.
- CGS 4260 SC MINI-COMPUTER APPLICATIONS** (3)
PR: CGS 4465. Study of mini-computer system components, I/O devices, theory of computer operation.
- CGS 4465 SC DATA REPRESENTATION AND MANIPULATION** (3)
PR: CDA 3100. Study of the internal representations of data, data storage and retrieval, and data manipulations.
- CGS 5540 SC COMPUTERS FOR RESEARCH I** (3)
PR: Graduate student status. The use of the FORTRAN language in solving research problems.
- COP 3120 SC COBOL PROGRAMMING I** (3)
PR: CGS 3060. Analysis of ANSI Standard COBOL language elements. Development of file structures and commercially oriented applications.
- COP 3121 SC COBOL PROGRAMMING II** (3)
PR: COP 3120. 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 3130 SC PL/I PROGRAMMING** (3)
PR: COP 3200. Use of PL/I language features in programming for business and scientific application. File and string manipulation, asynchronous and stream-oriented transmission.
- COP 3200 SC FORTRAN PROGRAMMING** (3)
PR: CGS 3060. Solution of scientifically oriented problems using the FORTRAN language. Particular emphasis is placed on file manipulation and system libraries.

MECHANICAL ENGINEERING

- EAS 4121 HYDRO AND AERODYNAMICS** (3)
PR: EML 3701, MAP 4302. Advanced fluid dynamics, ideal and viscous flows, applications to flow around immersed bodies.
- ECH 3301 INSTRUMENT SYSTEMS** (4)
PR: EGN 3373. Applications of analog and digital devices to instrumentation problems in chemical and mechanical engineering. Basic electrical measurements. Computer assisted measurements and process monitoring.
- EML 3303 MECHANICAL ENGINEERING LAB I** (3)
PR: EGN 3343, CR: ECH 3702. Engineering laboratory measurements. Use of the library and the writing of technical reports. Experiments in the measurement of temperature, pressure, fluid flow, psychometrics, concentration, viscosity. Mass-energy balances of simple systems.
- EML 3262 KINEMATICS AND DYNAMICS OF MACHINERY** (3)
PR: MAC 3282, PHY 3048. Kinematics of machines and mechanisms; position, velocity, and acceleration analysis of mecha-

- nisms; cams; gear trains; inertia forces in mechanisms; flywheels; balancing of rotating masses.
- EML 3500 MACHINE ANALYSIS AND DESIGN I** (3)
PR: EGN 3311. 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 3343; 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 COMPUTER SIMULATION I** (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. 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 4220 VIBRATIONS** (3)
PR: EML 3433 and EML 3264. Natural frequency, damping and resonance in single-degree-of-freedom systems. Vibration isolation and absorption. Lagrange's equations. Multi-degree of freedom systems. Introduction to vibration of continuous systems and predictive maintenance.
- EML 4206C DYNAMICS OF MACHINERY I** (3)
PR: EML 3262. Static forces and inertia forces in machines, flywheels, balancing rotating masses, balancing reciprocating masses, gyroscopic effects, mathematical analysis lumped parameter linear mechanical systems.
- EML 4302 MECHANICAL ENGINEERING LABORATORY II** (3)
PR: EML 3303. 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)
PR: EGN 3433. Introduces the concept of dynamic systems. Modeling of dynamic systems. Laplace Transforms. Transfer Functions. Block Diagrams. Characteristic equation. Time response of first and second order systems. Stability of dynamic systems. Routh stability criterion. Frequency response of dynamic systems. Polar plots and Bode plots. Introduction to state space model.
- 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 ANALYSIS AND DESIGN II** (3)
PR: EML 3500, EML 3264. Continuation of EML 3500. Antifriction bearings, journal bearings, power transmission, shafting.
- EML 4551 PROJECT DESIGN I** (3)
PR: EML 4503. Comprehensive design or feasibility project requiring application of previously acquired engineering knowledge; use of ANSYS and CAD.
- EML 4552 PROJECT DESIGN II** (3)
PR: EML 4551 or CC. Comprehensive design or feasibility study project. In some cases may be a continuation of EML 4551.
- EML 4601 REFRIGERATION AND AIR CONDITIONING** (3)
PR: EML 4106, EML 3701. Application of thermodynamics, heat transfer, and fluid flow to sizing of HVAC systems. Heating and cooling calculations, air requirements, equipment sizing. Energy Code requirements. Design project.
- 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. I** (1-4)
PR: CC. May be repeated up to 9 credit hours.
- EML 4931 SPECIAL TOPICS IN MECHANICAL ENGR. II** (1-4)
PR: CC. May be repeated up to 9 credit hours.
- EML 5225 ACOUSTICS AND NOISE CONTROL** (2)
Fundamentals of Sound Propagation; Sound Power and Intensity. Psychoacoustics; Industrial Noise sources and Methods of Attenuation; Instrumentation for Noise Measurements.
- EML 5245 TRIBOLOGY** (3)
PR: EML 4503. An introduction to friction, lubrication, and wear. Contact of real surfaces, mechanics of friction, surface failures, boundary lubrication fluid properties, thin film lubrication, thick film lubrication, bearing and lubricant selection.
- 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 5395 MOTOR SELECTION AND CONTROL** (3)
PR: EGN 3373, EGN 3433. Standard electrical voltages; power wiring in industrial plants; NEMA motor designs, techniques for estimating motor starting times and temperature rise; motor selection; starting and operating safety interlocks; conventional motor starting and control systems; direct digital (programmable) controls; electrical code requirements for conductors and protective devices.
- 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.

COLLEGE OF FINE ARTS

UNIVERSITY OF SOUTH FLORIDA - 1993/94 UNDERGRADUATE CATALOG

ART

Chairperson: J. T. Marquardt-Cherry; *Distinguished Professor - Dean Emeritus:* D. J. Saff; *Dean Emeritus - Professor Emeritus:* H. W. Covington; *Professors:* C. J. Fager, R. W. Gelinas, J. M. Kronsoble, M. R. Larsen, C. P. Lyman, B. L. Marsh, M. A. Miller, G. Pappas; *Associate Professors:* S. Davis, L. Marcus, J. T. Marquardt-Cherry, T. E. McLaughlin, B. J. Nickels, D. R. E. Wright, T. F. Wujcik; *Assistant Professors:* R. Beckman, J. DeLappe, M. Filippo, C. Gaile, V. Hirt, B. Shanks, H. Szepe, J. Wein; *Lecturer:* D. H. Elmeer; *Other Faculty:* D. L. Rosenzweig.

DANCE

Chairperson: T. R. Wilson; *Professors:* L. D. Berger, W. G. Hug, G. W. Warren; *Associate Professors:* S. W. Robinson-Waldrop; *Assistant Professors:* J. E. Parks, J. Travers-Neumann (Visiting); *Adjuncts:* R. DeMarco, K. McBee, M. Pagini, B. A. Pontius, A. Rhoda-Taylor, K. Silver.

MUSIC

Chairperson: J. J. Heller; *Professors:* J. Abram, F. T. Borkowski, V. A. Bridges, L. R. Cullison, C. P. Doane, J. J. Heller, R. E. Helps, V. S. Jennings, J. E. Lewis, R. M. McCormick, W. D. Owen, E. C. Preodor, M. N. Rearick, J. L. Smith, R. J. Summer, A. J. Watkins, A. N. Woodbury; *Associate Professors:* R. O. Froelich, A. L. Hawkins, W. W. Jaworski, H. K. Jones, D. W. Kneeburg, A. Y. Monroe, C. R. Owen, J. M. Reynolds, J. O. Robison, A. J. Summer, M. B. Thompson, N. R. Warfield; *Assistant Professors:* R. Blake, E. H. Cumming, J. K. Khorsandian, S. Klusdahl, J. L. S. Moore, J. B. Moorehead, P. Reller, J. W. Richmond; *Other Faculty:* L. Bray, J. Cinquina, A. Hurley, J. S. Keesecker, W. Mickelsen, C. D. Moses, M. Neuenschwander, J. M. Parris.

MUSIC EDUCATION

Director: C. P. Doane; *Professors:* V. A. Bridges, C. P. Doane, J. J. Heller; *Associate Professor:* C. P. Doane; *Assistant Professor:* J. L. S. Moore, J. W. Richmond.

THEATRE

Chairperson: D. M. Calandra; *Professors:* D. M. Calandra, N. B. Cole, W. A. Lorenzen, P. Massie, P. B. O'Sullivan; *Associate Professors:* J. W. Belt, P. M. Finelli, B. W. Lee, A. G. Lillethun, C. Steele, D. K. Williams; *Lecturer:* M. A. Bentley, G. B. Stephens.

ART

ARH 3001 INTRODUCTION TO ART -6A (4)
An expanded introductory treatment of basic concepts. For art majors and non-art majors.

ARH 2050 HISTORY OF VISUAL ARTS I (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. Required for Art Majors. Open to non-majors.

ARH 2051 HISTORY OF VISUAL ARTS II (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. Required for Art Majors. Open to non-majors.

ARH 2790 SELECTED TOPICS IN THE HISTORY OF FILM (4)
In-depth investigation of a selected period, development, or school in the history of film as art. May be repeated.

ARH 4100 PREHISTORIC AND ANCIENT ART (4)
A comprehensive study of Paleolithic, Neolithic, Egyptian, Assyrian and Mesopotamian painting, sculpture and architecture.

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 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 France and England.

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 4530 ORIENTAL ART (4)
An introduction to concepts of the arts of China, Japan and other Far Eastern countries.

ARH 4796 CRITICAL STUDIES IN ART HISTORY -6A (4)
PR: Cl. 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 4937 SEMINAR IN THE HISTORY OF ART HISTORY (4)
PR: Four courses in Art History at the 4000 level, Cl. An examination of the origins of Art History as a discipline and changing nature of Art History from Vasari to the present.

ARH 5385 CULTURAL AND INTELLECTUAL HISTORY OF RENAISSANCE AND BAROQUE ART (4)
A course in which Renaissance and Baroque theories of art are treated as part of general cultural and intellectual history.

ARH 5451 CULTURAL AND INTELLECTUAL HISTORY OF MODERN ART (4)
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 (4)
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 2201C VISUAL CONCEPTS I (4)
Studio problems supplemented by reading and discussion. Consideration of spatial organization of the two-dimensional surface.

ART 2203C VISUAL CONCEPTS II (4)
Studio problems supplemented by reading and discussion. Consideration of the three-dimensional organization of space and mass.

ART 2930 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 3110C CERAMICS I (4)
PR: ARH 3001 and ART 2203C. Intermediate problems in ceramics and emphasis on the exploration of methods and media and the development of individual concepts.

ART 3222 INTRODUCTION TO COMPUTER IMAGES (4)
PR: ARH 3001 and ART 2201C. An introduction to the micro-computer as a tool for the visual arts. The course uses a variety of imaging software, and requires no computer experience. Available to majors and non-majors.

ART 3301C DRAWING I (4)
PR: ARH 3001 and ART 2201C. Drawing as a means of formal organization. Introduction to intermediate drawing methods and media.

ART 3420C LITHOGRAPHY I (4)
PR: ARH 3001, ART 2201C, and ART 3301C. Intermediate projects in lithography with emphasis on the exploration of methods and media and development of individual concepts.

ART 3468 MULTI-MEDIA PRINTMAKING (4)
PR: ARH 3001, ART 2201C, ART 3301C. Investigation of Printmaking Media including: monotyping, collograph, relief printing and the dimensional print with emphasis on the development of individual concepts.

- ART 3469 PHOTO-PRINTMAKING (4)**
PR: ARH 3001, ART 2201C, ART 3301C. 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 3470C INTAGLIO I (4)**
PR: ARH 3001, ART 2201C, ART 3301C. Introduction to Art and Drawing I. Intermediate projects in intaglio with emphasis on the exploration of methods and media and the development of individual concepts.
- ART 3510C PAINTING I (4)**
PR: ARH 3001, ART 2201C, ART 3301C. Intermediate projects in painting with emphasis on the exploration of methods and media and the development of individual concepts.
- ART 3701C SCULPTURE I (4)**
PR: ARH 3001 and ART 2203C. Intermediate problems in sculpture with emphasis on the exploration of materials and media and the development of individual concepts.
- ART 3935 STUDIO TECHNIQUES: SELECTED PROJECTS (2)**
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 4111C CERAMICS II (4)**
PR: ART 3110C. Continued problems in ceramics. May be repeated.
- ART 4223 ADVANCED COMPUTER IMAGES (4)**
PR: ARH 3001, ART 2201C, and ART 3222. A continuing study of the micro-computer as a tool for the visual arts. A course in 2-D image creation and manipulation. Available to majors and non-majors.
- ART 4224 COMPUTER ANIMATION (4)**
PR: ARH 3001, ART 2201C, ART 2203C, and ART 3222. A study of computer animation for the creation of art. Includes cel, programmed, and 3-D animation techniques. Available to majors and non-majors.
- ART 4320C DRAWING II (4)**
PR: ART 3301C. Continued projects in drawing. May be repeated.
- ART 4421C LITHOGRAPHY II (4)**
PR: ART 3420C. Continued projects in lithography. May be repeated.
- ART 4471C INTAGLIO II (4)**
PR: ART 3470C. Continued projects in intaglio. May be repeated.
- ART 4520C PAINTING II (4)**
PR: ART 3510C. Continued projects in painting. May be repeated.
- ART 4702C SCULPTURE II (4)**
PR: ART 3701C. Continued problems in sculpture. May be repeated.
- 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 4935 ART SENIOR SEMINAR (2)**
PR: Senior Status. To aid majors to understand, appraise, and perfect their own art and technique through critical and aesthetic judgments of their colleagues. Discussion and critical evaluation.
- Admission to all 5000-level studio courses by Consent of Instructor.**
- ART 5125C CERAMICS (4)**
PR: ART 4111C. Advanced projects in the various ceramic techniques, including throwing and glaze calculation. May be repeated.
- ART 5340C DRAWING (4)**
PR: ART 4320C. Advanced projects in various drawing techniques. Emphasis on individual creative expression. May be repeated.
- ART 5422C LITHOGRAPHY (4)**
PR: ART 4421C. Advanced projects in various lithographic techniques. Emphasis on individual creative expression. May be repeated.
- ART 5472C INTAGLIO (4)**
PR: ART 4471C. Investigations into more complex intaglio processes including photoengraving and color printing procedures. Emphasis on personal conceptual development in graphic media. May be repeated.
- ART 5536 PAINTING (4)**
PR: ART 4520C. Advanced projects in the various painting techniques. Emphasis on individual creative expression. May be repeated.
- ART 5730C SCULPTURE (4)**
PR: ART 4702C. 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 5936 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 3001 FILM: THE LANGUAGE OF VISION -6A (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.
- PGY 3401C PHOTOGRAPHY I (4)**
PR: ARH 3001 and ART 2201C. Intermediate projects in photography with emphasis on the exploration of materials and media and the development of individual concepts.
- PGY 3510C CINEMATOGRAPHY I (4)**
PR: RH 3001 and ART 2201C. Intermediate projects in cinematography with emphasis on the exploration of materials and media and the development of individual concepts.
- PGY 4410C PHOTOGRAPHY II (4)**
PR: PGY 3401C. Continued problems in photography. May be repeated.
- PGY 4520C CINEMATOGRAPHY II (4)**
PR: PGY 3510C. Continued problems in cinematography. May be repeated.
- PGY 4550C SOUND TECHNIQUES (4)**
PR: PGY 3510C. The recording and editing of sound for film. Collaboration with other departments, particularly Music and Theatre, is encouraged. To be taken concurrently with PGY 4520C or PGY 5420C whenever possible.
- PGY 5425C PHOTOGRAPHY (4)**
PR: CI. Advanced work in photography and related media leading to development of personal/expressive statements. May be repeated.
- PGY 5530C CINEMATOGRAPHY (4)**
PR: PGY 4520C. Advanced studio work using black and white, color and sound as technical and aesthetic factors in visual, artistic productions. May be repeated.
- DANCE**
- DAA 2000 THEATRE DANCE STYLES (2)**
PR: DAA 2100 or DAA 2200 or CI. Development of technical skills in social and historical dance forms frequently stylized for use by dance choreographers. Forms to be studied will include polka, clogging, waltz, folk, tap dancing, etc. May be repeated up to 4 credit hours.
- DAA 2100 FUNDAMENTALS OF MODERN DANCE I (2)**
To acquaint beginning modern students with fundamentals of dance vocabulary, movement, rhythm and alignment. May be repeated.
- DAA 2104 MODERN DANCE II (3)**
PR: Admission by audition. Study of principles of modern dance technique. Practical work in exercises and movement phrases, utilizing changing rhythms and dynamics. Concert and performance attendance required. May be repeated.

- DAA 2200 FUNDAMENTALS OF BALLET I** (2)
To acquaint beginning ballet students with fundamentals of vocabulary, movement, rhythm and alignment. May be repeated.
- DAA 2204 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 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 2704 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 up to 4 credit hours.
- DAA 3105 MODERN DANCE III** (3-4)
PR: Admission by placement audition. Continuation of DAA 2104. Further emphasis on style and phrasing. Work on projecting mood and quality by dancing and rehearsing in more advanced choreography, leading to performance. May be repeated.
- DAA 3205 BALLET III** (3-4)
PR: Admission by placement audition. Continuation of DAA 2204. Intensification of barre exercises for the development of strength and form. Application of phrasing and movement. Material covered as practical work in class for concerts and performances. May be repeated.
- DAA 3220 BALLET VARIATIONS** (1)
PR: DAA 3202. 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 3400 REPERTORY** (1)
The development and performance of solo and/or group dances. Open to all University students by audition. May be repeated.
- DAA 3480 PERFORMANCE** (1)
PR: Admission by audition or CC. Open to all university students proficient in dance techniques. Rehearsal and performance of works presented by the department. May be repeated up to 10 credit hours.
- DAA 3502 JAZZ DANCE** (2)
PR: Admission by placement audition, DAA 2204 or 2104. 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 3503 JAZZ THEATRE DANCE** (3)
PR: Admission by placement audition and DAA 3502. Continuation of DAA 3502. Further emphasis on projection, phrasing, rhythmic patterns and dynamics. Solo and ensemble studies leading to performance. May be repeated.
- DAA 3700 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 3701 CHOREOGRAPHY II** (2)
PR: DAA 3700 or CI. Preparation of studies in rhythm, dynamics, form and motivation. May be repeated.
- DAA 3800 SPECIALIZED STUDY IN MOVEMENT THEORY AND BODY ALIGNMENT** (2)
Analysis of scientific basis of movement for the dancer through the study of body alignment and movement theories related to dance techniques.
- DAA 4106 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 4206 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 4702 CHOREOGRAPHY III** (2)
PR: DAA 3701 or CI. Work directed toward duets and group dances. The students will submit choreographic ideas for instructor's approval, then proceed with rehearsals. Lec-lab., reading. Rehearsal hours to be arranged. May be repeated.
- DAA 4703 CHOREOGRAPHY IV** (2)
PR: DAA 4702. The student will prepare studies based on free form, minimal art, and chance methods. Lec-lab., reading. May be repeated.
- DAA 4790 SENIOR PROJECT** (1-5)
PR: senior 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 4920 DANCE STUDIES** (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.
- DAE 4300 THE TEACHING OF DANCE: THEORY AND PRACTICE** (3)
PR: CI, CC. Designed to provide prospective dance teachers with opportunities to develop concepts of pedagogy based on principles of teaching - learning in dance techniques and choreography. For majors and non-majors. May be repeated up to 9 credit hours.
- 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 (70%), and movement experience (30%).
- DAN 2610 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 2611 MUSIC FOR DANCE II** (2)
PR: DAN 2610 or CI. Elements within historical context. Continued problems in rhythmic materials.
- DAN 3590 PRACTICUM IN DANCE PRODUCTION I** (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 4111 SURVEY HISTORY OF DANCE -6A** (3)
Survey history of dance. Study of development of dance from its inception through 18th Century. Social and theatrical dance forms, Ethnic Dance included. Reading, lecture, and visual aids.
- DAN 4112 19TH AND 20TH CENTURY DANCE** (3)
Survey history of dance. Study of development of dance from 19th Century through 20th Century. Theatrical and other expressive forms included. Reading, lecture and visual aids.
- DAN 4170 DANCE SENIOR SEMINAR** (2)
PR: Senior 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 4905 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 4906 DIRECTED STUDY** (1-5)
PR: CI, 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.

MUSIC

- MUC 2221 COMPOSITION** (3)
PR: MUT 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 or analog music synthesis; technical basis of analog systems design and construction.
- MUC 3441, 3442 ELECTRONIC MUSIC-DIGITAL SYNTHESIS** (3,3)
PR: MUC 3401 or 3402 and 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 3601, 3602 CONTEMPORARY TECHNIQUES OF COMPOSITION** (3,3)
PR: CI. Instruction in the use of major Twentieth-Century compositional techniques; tonal unordered set, and serial composition and the use of indeterminacy in composition and performance.
- MUC 4241 COMPOSITION** (3)
PR: Necessary competency at MUC 3231 level determined by faculty jury. Private instruction in original composition. Required of composition majors. Must be repeated for credit for a minimum of 6 hours for majors.
- 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.
- MUG 3101 BASIC CONDUCTING** (2)
PR: CI. The study and practical application of basic conducting techniques. Development of skills related to the conducting of musical scores.
- MUG 4202 CHORAL CONDUCTING** (2)
PR: MUG 3101 or its equivalent and CI. Practical application of conducting techniques to choral works, score study, performance practices, and rehearsal techniques. Class serves as performing group.
- MUG 4302 INSTRUMENTAL CONDUCTING** (2)
PR: MUG 3101 & CI. A study of those techniques of conducting unique to instrumental music ensembles: baton technique, score reading, terminology, rehearsal management.
- MUH 2019 HISTORY OF POPULAR MUSIC** (2)
Popular music in the U.S. from 1820 to present. Units on the big band era, country and western, jazz, Black music, and the rock scene beginning in 1955. May be used for University General Distribution Requirements and may be used to satisfy part of the 6 hours in-College Requirement for Fine Arts majors in Art, Dance, Theatre and as a music elective.
- MUH 3016 SURVEY OF JAZZ** (2)
An in-depth study of the historical study of jazz, including the representative music, literature, and sociological implications.
- MUH 2051 FOLK AND TRADITIONAL MUSIC OF WORLD CULTURES** (3)
A comparative survey of the stylistic traits and functions of the folk and traditional music, both sacred and secular, of diverse

Western and non-Western cultures. For non-majors; may be taken by majors as an elective with departmental approval.

- MUH 3300 MUSIC HISTORY / MEDIEVAL AND RENAISSANCE** (2)
PR: CI. Required of music majors; a study of the historical development of musical styles of the Medieval and Renaissance periods and of the music of those periods.
- MUH 3301 MUSIC HISTORY / BAROQUE AND CLASSIC** (3)
PR: CI. Required of music majors; a study of the historical development of musical styles of the Baroque and classic periods and of the music of those periods.
- MUH 3302 MUSIC HISTORY / ROMANTIC AND 20TH CENTURY** (3)
PR: CI. Required of music majors; a study of the historical development of musical styles of the Romantic and 20th Century periods and of the music of those periods.
- MUH 4801 HISTORY OF JAZZ** (3)
PR: MUT 1112 or CI. An in-depth study of the historical development of Jazz, including the representative musical literature and sociological implications.
- MUL 2001 ISSUES IN MUSIC** (2-3)
Open only to non-music majors; lectures and live performances by artist faculty of significant works from the literature for the piano; analysis and illustration in performance of the abstract and aesthetic elements in music which vitally concern the artist-performer. This course is also available on WUSF/TV Channel 16 by the O. U. Program. (S/U only.)
- MUL 2011, 3012 THE ENJOYMENT OF MUSIC** (3,3)
Open only to non-music majors; a study in the art of music and its materials, designed to develop an understanding of basic principles of music and a technique for listening to music.
- MUL 2111 INTRODUCTION TO MUSIC LITERATURE-6A** (3)
PR: MUT 1112 or CI. A survey of representative music exemplars of the past and present with emphasis on the study of styles and form. Required for music majors.
- MAJOR PERFORMING ENSEMBLES** (below)
PR: CI. Open to all university students with the necessary proficiency in their performing media; study and performance of music for large combinations of voices, string, woodwind, brass, or percussion instruments. May be repeated for credit.
- MUN 3143 WIND ENSEMBLE** (1)
- MUN 3213 UNIVERSITY ORCHESTRA** (1)
- MUN 3313 UNIVERSITY SINGERS** (1)
- MUN 3383 UNIVERSITY-COMMUNITY CHORUS** (1)
- MUN 3453 PIANO ENSEMBLE** (1)
- MUN 3713 JAZZ ENSEMBLE** (1)
- MUO 3503 OPERA WORKSHOP** (1)
- CHAMBER MUSIC ENSEMBLES (below)**
PR: CI. Open to all university students with the necessary proficiency in their performance media; study and performance of music for small combinations of voices, string, woodwind, brass, or percussion instruments, and piano; may be repeated for credit.
- MUN 3343 CHAMBER SINGERS** (1)
- MUN 3411 STRING QUARTET** (1)
- MUN 3420 SAXOPHONE ENSEMBLE** (1)
- MUN 3421 FLUTE CHOIR** (1)
- MUN 3424 WOODWIND QUINTET** (1)
- MUN 3431 BRASS QUINTET** (1)
- MUN 3432 HORN QUARTET** (1)
- MUN 3433 BRASS CHOIR** (1)
- MUN 3443 PERCUSSION ENSEMBLE** (1)
- MUN 3444 MARIMBA ENSEMBLE** (1)
- MUN 3473 COLLEGIUM MUSICUM** (1)
- MUN 3483 CLASSICAL GUITAR ENSEMBLE** (1)
- MUN 3714 JAZZ CHAMBER ENSEMBLE** (1)
- MUS 2010 RECITAL ATTENDANCE** (0)
This course is required whenever a student registers for applied music. The requirement for the successful completion of the course is attendance at ten (10) department-approved recitals/concerts throughout the semester. (S/U Grading only).
- MUS 3201 LANGUAGE DICTION FOR SINGERS** (1)
Specialized study in Language Diction for Singers. Specific language varies, to be arranged at each course offering. May be repeated for a total of three different languages only. Required of voice performance majors.

MUS 4900 DIRECTED READING (1-3)

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.

MUS 4905 DIRECTED STUDY (1-4)

PR: CC. Independent studies in the various areas of music; course of study and credits must be assigned prior to registration; may be repeated.

MUS 4930 SELECTED TOPICS IN MUSIC (1-4)

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.

MUS 4931 SELECTED STUDIO TOPICS IN MUSIC (1-4)

PR: CI. The content of the study will be governed by individual student demand and instructor interest with an emphasis on individual instruction.

MUS 4935 MUSIC SENIOR SEMINAR (1)

PR: CI. To aid majors to understand, appraise and perfect their own art through critical and aesthetic judgments of their colleagues. (S/U only.)

MUS 5905 DIRECTED STUDY (1-4)

PR: CC. Independent studies in the various areas of music; course of study and credits must be assigned prior to registration; may be repeated.

MUSIC WORKSHOP COURSES (below)

PR: CI. Intensive study in the specialized areas indicated below; open to teachers, University students, and secondary students; credit available to qualified students.

MUS 5927 ORCHESTRA WORKSHOP (1-2)**MUS 5929 STRING WORKSHOP (1-2)****MUT 1001 RUDIMENTS OF MUSIC (2)**

Open to non-music majors; development of skills in hearing and performing music and in basic notation. Will not count as degree credit for music majors.

MUT 1111, 1112 MUSIC THEORY (3,3)

PR: CI. Required of music majors; development of skills in 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 rhythmic, 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 2246, 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 rhythmic, melodic and harmonic dictation, and sight singing. To be taken concurrently with MUT 2116, 2117.

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 3641 JAZZ THEORY AND IMPROVISATION I (2)

PR: MUT 1112 and/or CI. A study of jazz improvisational techniques and related jazz theory.

MUT 3642 JAZZ THEORY AND IMPROVISATION II (2)

PR: MUT 3641 or CI. A study of jazz improvisational techniques and related jazz theory.

MUT 3663 JAZZ STYLES AND ANALYSIS I (2)

PR: MUT 3642 or CI. A studio course study of the improvised solos 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 3664 JAZZ STYLES AND ANALYSIS 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 ORCHESTRATION (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.

SECONDARY APPLIED MUSIC COURSES (below)

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.

MVB 1211 APPLIED TRUMPET (1)**MVB 1212 APPLIED FRENCH HORN (1)****MVB 1213 APPLIED TROMBONE (1)****MVB 1214 APPLIED BARITONE (1)****MVB 1215 APPLIED TUBA (1)****MVJ 1213 APPLIED JAZZ GUITAR (1)****MVJ 1214 APPLIED JAZZ BASS (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)****MVV 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. Primary 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 2111 KEYBOARD SKILLS III (2)****MVK 2121 KEYBOARD SKILLS IV (2)****MVK 3111 MUSIC MAJORS, LEVEL V (2)****MVK 1811 BEGINNING PIANO I (2)****MVK 1821 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 TUBA PRINCIPAL	(2)
MVJ 1313 JAZZ GUITAR PRINCIPAL	(2)
MVJ 1314 JAZZ BASS 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)
MVV 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: Cl. 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)
MVB 2325 TUBA PRINCIPAL	(2)
MVJ 2323 JAZZ GUITAR PRINCIPAL	(2)
MVJ 2324 JAZZ BASS PRINCIPAL	(2)
MVK 2321 PIANO PRINCIPAL	(2)
MVK 2323 ORGAN PRINCIPAL	(2)
MVP 2321 PERCUSSION PRINCIPAL	(2)
MVS 2321 VIOLIN PRINCIPAL	(2)
MVS 2322 VIOLA PRINCIPAL	(2)
MVS 2323 VIOLONCELLO PRINCIPAL	(2)
MVS 2324 DOUBLE BASS PRINCIPAL	(2)
MVS 2325 HARP PRINCIPAL	(2)
MVS 2326 CLASSICAL GUITAR PRINCIPAL	(2)
MVV 2321 VOICE PRINCIPAL	(2)
MVW 2321 FLUTE PRINCIPAL	(2)
MVW 2322 OBOE PRINCIPAL	(2)
MVW 2323 CLARINET PRINCIPAL	(2)
MVW 2324 BASSOON PRINCIPAL	(2)
MVW 2325 SAXOPHONE PRINCIPAL	(2)

APPLIED MUSIC COURSES PRINCIPAL (below)

PR: Cl. 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 three semesters only. Applied music courses are NOT available on S/U basis.

MVB 3331 TRUMPET PRINCIPAL	(2)
MVB 3332 FRENCH HORN PRINCIPAL	(2)
MVB 3333 TROMBONE PRINCIPAL	(2)
MVB 3334 EUPHONIUM PRINCIPAL	(2)
MVB 3335 TUBA PRINCIPAL	(2)
MVJ 3333 JAZZ GUITAR PRINCIPAL	(2)
MVJ 3334 JAZZ BASS PRINCIPAL	(2)
MVK 3331 PIANO PRINCIPAL	(2)
MVK 3333 ORGAN PRINCIPAL	(2)
MVP 3331 PERCUSSION PRINCIPAL	(2)
MVS 3331 VIOLIN PRINCIPAL	(2)
MVS 3332 VIOLA PRINCIPAL	(2)
MVS 3333 VIOLONCELLO PRINCIPAL	(2)
MVS 3334 DOUBLE BASS PRINCIPAL	(2)
MVS 3335 HARP PRINCIPAL	(2)
MVS 3336 CLASSICAL GUITAR PRINCIPAL	(2)
MVV 3331 VOICE PRINCIPAL	(2)
MVW 3331 FLUTE PRINCIPAL	(2)
MVW 3332 OBOE PRINCIPAL	(2)
MVW 3333 CLARINET PRINCIPAL	(2)
MVW 3334 BASSOON PRINCIPAL	(2)
MVW 3335 SAXOPHONE PRINCIPAL	(2)

APPLIED MUSIC COURSES PRINCIPAL (below)

PR: Cl. 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 4341 TRUMPET PRINCIPAL	(2)
MVB 4342 FRENCH HORN PRINCIPAL	(2)
MVB 4343 TROMBONE PRINCIPAL	(2)
MVB 4344 EUPHONIUM PRINCIPAL	(2)
MVB 4345 TUBA PRINCIPAL	(2)
MVJ 4343 JAZZ GUITAR PRINCIPAL	(2)
MVJ 4344 JAZZ BASS PRINCIPAL	(2)
MVK 4341 PIANO PRINCIPAL	(2)
MVK 4343 ORGAN PRINCIPAL	(2)
MVP 4341 PERCUSSION PRINCIPAL	(2)
MVS 4341 VIOLIN PRINCIPAL	(2)
MVS 4342 VIOLA PRINCIPAL	(2)
MVS 4343 VIOLONCELLO PRINCIPAL	(2)
MVS 4344 DOUBLE BASS PRINCIPAL	(2)
MVS 4345 HARP PRINCIPAL	(2)
MVS 4346 CLASSICAL GUITAR PRINCIPAL	(2)
MVV 4341 VOICE PRINCIPAL	(2)
MVW 4341 FLUTE PRINCIPAL	(2)
MVW 4342 OBOE PRINCIPAL	(2)
MVW 4343 CLARINET PRINCIPAL	(2)
MVW 4344 BASSOON PRINCIPAL	(2)
MVW 4345 SAXOPHONE PRINCIPAL	(2)

APPLIED MUSIC COURSES (below)

PR: Cl. Required of all applied music 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.

MVB 1411 TRUMPET MAJOR	(4)
MVB 1412 FRENCH HORN MAJOR	(4)
MVB 1413 TROMBONE MAJOR	(4)
MVB 1414 EUPHONIUM MAJOR	(4)
MVB 1415 TUBA MAJOR	(4)
MVJ 1413 JAZZ GUITAR MAJOR	(4)
MVJ 1414 JAZZ BASS MAJOR	(4)
MVK 1411 PIANO MAJOR	(4)
MVK 1413 ORGAN MAJOR	(4)
MVP 1411 PERCUSSION MAJOR	(4)
MVS 1411 VIOLIN MAJOR	(4)
MVS 1412 VIOLA MAJOR	(4)
MVS 1413 CELLO MAJOR	(4)
MVS 1414 DOUBLE BASS MAJOR	(4)
MVS 1415 HARP MAJOR	(4)
MVS 1416 CLASSICAL GUITAR MAJOR	(4)
MVV 1411 VOICE MAJOR	(4)
MVW 1411 FLUTE MAJOR	(4)
MVW 1412 OBOE MAJOR	(4)
MVW 1413 CLARINET MAJOR	(4)
MVW 1414 BASSOON MAJOR	(4)
MVW 1415 SAXOPHONE MAJOR	(4)

APPLIED MUSIC COURSES (below)

PR: Necessary competency at sophomore level determined by faculty jury examination. Required of all applied music majors. Private and instruction in string, woodwind, brass, and percussion instruments, voice and piano. May be repeated for credit three semesters only.

MVB 2421 TRUMPET MAJOR	(4)
MVB 2422 FRENCH HORN MAJOR	(4)
MVB 2423 TROMBONE MAJOR	(4)
MVB 2424 EUPHONIUM MAJOR	(4)
MVB 2425 TUBA MAJOR	(4)
MVJ 2423 JAZZ GUITAR MAJOR	(4)
MVJ 2424 JAZZ BASS MAJOR	(4)
MVK 2421 PIANO MAJOR	(4)
MVK 2423 ORGAN MAJOR	(4)
MVP 2421 PERCUSSION MAJOR	(4)
MVS 2421 VIOLIN MAJOR	(4)
MVS 2422 VIOLA MAJOR	(4)
MVS 2423 CELLO MAJOR	(4)
MVS 2424 DOUBLE BASS MAJOR	(4)
MVS 2425 HARP MAJOR	(4)
MVS 2426 CLASSICAL GUITAR MAJOR	(4)
MVV 2421 VOICE MAJOR	(4)
MVW 2421 FLUTE MAJOR	(4)
MVW 2422 OBOE MAJOR	(4)
MVW 2423 CLARINET MAJOR	(4)

MVW 2424 BASSOON MAJOR (4)
MVW 2425 SAXOPHONE MAJOR (4)
APPLIED MUSIC COURSES (below)

PR: Necessary competency at junior level determined by faculty jury examination. Required of all applied music majors. Private and class instruction in string, woodwind, brass and percussion instruments, voice and piano. May be repeated for credit three semesters only.

MVB 3431 TRUMPET MAJOR	(4)
MVB 3432 FRENCH HORN MAJOR	(4)
MVB 3433 TROMBONE MAJOR	(4)
MVB 3434 EUPHONIUM MAJOR	(4)
MVB 3435 TUBA MAJOR	(4)
MVJ 3433 JAZZ GUITAR MAJOR	(4)
MVJ 3434 JAZZ BASS MAJOR	(4)
MVK 3431 PIANO MAJOR	(4)
MVK 3433 ORGAN MAJOR	(4)
MVP 3431 PERCUSSION MAJOR	(4)
MVS 3431 VIOLIN MAJOR	(4)
MVS 3432 VIOLA MAJOR	(4)
MVS 3433 CELLO MAJOR	(4)
MVS 3434 DOUBLE BASS MAJOR	(4)
MVS 3435 HARP MAJOR	(4)
MVS 3436 CLASSICAL GUITAR MAJOR	(4)
MVW 3431 VOICE MAJOR	(4)
MVW 3431 FLUTE MAJOR	(4)
MVW 3432 OBOE MAJOR	(4)
MVW 3433 CLARINET MAJOR	(4)
MVW 3434 BASSOON MAJOR	(4)
MVW 3435 SAXOPHONE MAJOR	(4)

APPLIED MUSIC COURSES (below)

PR: Necessary competency at senior level determined by faculty jury examination. Required of all applied music majors. Private and class instruction in string, woodwind, brass and percussion instruments, voice and piano. Must be repeated for credit for minimum of 8 hours for majors.

MVB 4441 TRUMPET MAJOR	(4)
MVB 4442 FRENCH HORN MAJOR	(4)
MVB 4443 TROMBONE MAJOR	(4)
MVB 4444 EUPHONIUM MAJOR	(4)
MVB 4445 TUBA MAJOR	(4)
MVJ 4443 JAZZ GUITAR MAJOR	(4)
MVJ 4444 JAZZ BASS MAJOR	(4)
MVK 4441 PIANO MAJOR	(4)
MVK 4443 ORGAN MAJOR	(4)
MVP 4441 PERCUSSION MAJOR	(4)
MVS 4441 VIOLIN MAJOR	(4)
MVS 4442 VIOLA MAJOR	(4)
MVS 4443 CELLO MAJOR	(4)
MVS 4444 DOUBLE BASS MAJOR	(4)
MVS 4445 HARP MAJOR	(4)
MVS 4446 CLASSICAL GUITAR MAJOR	(4)
MVW 4441 VOICE MAJOR	(4)
MVW 4441 FLUTE MAJOR	(4)
MVW 4442 OBOE MAJOR	(4)
MVW 4443 CLARINET MAJOR	(4)
MVW 4444 BASSOON MAJOR	(4)
MVW 4445 SAXOPHONE MAJOR	(4)

APPLIED MUSIC COURSES (below)

PR: CI. Private and class instruction in string, woodwind, brass and percussion instruments, voice and piano. Open to senior and advanced undergraduate students who have completed recital requirements, special non-degree seeking students, and students who have a secondary applied music requirement.

MVB 5251 APPLIED TRUMPET	(2-4)
MVB 5252 APPLIED FRENCH HORN	(2-4)
MVB 5253 APPLIED TROMBONE	(2-4)
MVB 5254 APPLIED BARITONE	(2-4)
MBV 5255 APPLIED TUBA	(2-4)
MVK 5251 APPLIED PIANO	(2-4)
MVK 5253 APPLIED ORGAN	(2-4)
MVK 5251 APPLIED VIOLIN	(2-4)
MVK 5252 APPLIED VIOLA	(2-4)
MVS 5253 APPLIED CELLO	(2-4)
MVS 5254 APPLIED DOUBLE BASS	(2-4)
MVS 5255 APPLIED HARP	(2-4)
MVS 5256 APPLIED CLASSICAL GUITAR	(2-4)

MVV 5251 APPLIED VOICE	(2-4)
MVW 5251 APPLIED FLUTE	(2-4)
MVW 5252 APPLIED OBOE	(2-4)
MVW 5253 APPLIED CLARINET	(2-4)
MVW 5254 APPLIED BASSOON	(2-4)
MVW 5255 APPLIED SAXAPHONE	(2-4)

MUSIC STUDIO PEDAGOGY COURSES (below)

PR: CI. May be elected by undergraduate music majors; emphasis on the business management of the music studio, and the musical responsibilities of the studio teacher, the techniques of private instruction.

MVK 4640 PIANO PEDAGOGY I	(4)
MVK 4641 PIANO PEDAGOGY II	(4)

MASTER CLASS COURSES (below)

PR: CI. Study and performance of selected literature with special emphasis on style, form, and techniques; especially designed for teachers, piano majors, and talented secondary school students.

MVS 5750 STRINGS, MASTER CLASS	(2)
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MUSIC EDUCATION

MUE 2090 THEORETICAL BASES OF MUSIC EDUCATION	(2)
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The course is designed to investigate music education practices in the schools. Through the experience and information offered in this course a student will be able to determine his/her commitment to professional music education.

MUE 3421 CHORAL MATERIALS PRACTICUM	(1)
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PR: CI. A study of choral materials in a laboratory setting appropriate to elementary and secondary school music programs. Course content will change each semester. May be repeated for a total of 2 credit hours.

MUE 3422 BAND MATERIALS PRACTICUM	(1)
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PR: CI. A study of band materials in a laboratory setting appropriate to elementary and secondary school music programs. Course content will change each semester. May be repeated for a total of 2 credit hours.

MUE 3423 ORCHESTRA MATERIALS PRACTICUM	(1)
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PR: CI. A study of orchestra materials, in a laboratory setting, appropriate to elementary and secondary school music programs. Course content will change each semester. May be repeated for a total of 2 credit hours.

MUE 3450 BEGINNING WOODWIND TECHNIQUES	(1)
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PR: Sophomore standing, non-woodwind major. The course introduces the fundamentals of woodwind instrument pedagogy. In addition basic techniques of woodwind performance are taught through the study of clarinet and flute.

MUE 3451 ADVANCED WOODWIND TECHNIQUES	(1)
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PR: Sophomore standing, woodwind instrument major or MUE 3450. The course develops knowledge and skills dealing with advanced principles of teaching and performing on woodwind instruments.

MUE 3460 BEGINNING BRASS TECHNIQUES	(1)
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PR: Sophomore standing, non-brass major. The course introduces the fundamentals of brass wind instrument pedagogy. In addition, basic techniques of brass performance are taught through the study of trombone and trumpet.

MUE 3461 ADVANCED BRASS TECHNIQUES	(1)
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PR: Sophomore standing, brass instrument major or MUE 3460. The course develops knowledge and skills dealing with advanced principles of teaching and performing on all brass instruments.

MUE 4210 MUSIC FOR THE CHILD	(3)
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PR: Admission to the College of Education. Music fundamentals, the development of music skills and knowledge of music materials and teaching strategies for presenting music to children in the elementary school.

MUE 4311 MUSIC IN THE ELEMENTARY SCHOOL	(3)
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PR: CI. A study of principles, techniques, materials, and activities as they relate to a comprehensive music curriculum in Grades K-6.

MUE 4321 FOUNDATIONS OF CHORAL MUSIC	(2)
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This course deals with the development of knowledge and skills needed to effectively organize and teach a choral music program for elementary and intermediate grade level students. Include school observation and participation component. Major status or instructor permission required.

MUE 4330 CLASSROOM MUSIC IN THE SECONDARY SCHOOL (3)
PR: CI. Development and implementation of methods and techniques for teaching music to the student not participating in secondary school music performing groups.

MUE 4331 CHORAL METHODS IN THE SECONDARY SCHOOL (3)
PR: CI. Junior standing. Development and implementation of methods techniques for teaching secondary school choral music.

MUE 4332 INSTRUMENTAL MUSIC IN THE SECONDARY SCHOOL (3)
PR: CI. MUE 3450, MUE 3460, MVP 1211. Junior standing. Development and implementation of methods techniques for teaching secondary school instrumental music.

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 4905 INDEPENDENT STUDY: MUSIC 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).

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 (2)
CR MUE 4940. Synthesis of teacher candidate's courses in complete college program. Required concurrently with internship.

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 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.)

MUE 4941 INTERNSHIP (1-4)
Part-time internship in an accredited public or private school. To be taken concurrently with departmental requirements and will include beginning of the year experiences when taken in Fall Semester. (S/U only.)

MUE 4942 INTERNSHIP (1-2)
PR: Admission to the College of Education and/or departmental approval. Internship in an accredited public or private school which will include the end of the academic year or program closing. (S/U only.)

THEATRE

THE 2020 THEATRE FUNDAMENTALS (2)
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 open to non-majors and theatre majors should take this course concurrently with their first registration in the group of courses TPA 2200, TPA 2223, TPA 2232, TPP 2110. Required of all theatre majors.

THE 3090C MODERN THEATRE PRACTICE -6A (4)
Initial readings and exercises in theatre; play analysis, performance, and technical theatre for non-theatre majors.

THE 3100 THEATRE HISTORY (4)
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 3925 PRODUCTION INVOLVEMENT (1)
The rehearsal, construction, and performance of major theatrical works. Assignments are made by a faculty committee following the student's completion of a PI request form, available in the Theatre Office, and enrollment in this course. May be repeated. Open to non-majors with CI.

THE 4180 THEATRE ORIGINS (4)
PR: THE 3100 and one of the following: THE 4320, THE 4330, THE 4360, THE 4401, THE 4442, THE 4480. An analysis of the development of theatre out of myth, ritual, and liturgy. Emphasis placed on what attempts to understand the resulting phenom-

ena (e.g. Aristotle's *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. (A requirement in the design track/costume.) Open to upper level non-majors with CI.

THE 4266 ARCHITECTURE AND DECOR (3)
A survey of architecture and furniture from ancient Egypt to the 20th Century. (A requirement in the design track/scenic.) Open to upper level non-majors with CI.

THE 4320 THE THEATRE OF MYTH AND RITUAL/NORTHERN EUROPEAN (950-1600) AND ORIENTAL (400-1200) (3)
PR: THE 3100. An investigation into the interrelationship of myth, ritual, and theatre. Considers northern European liturgical and secular plays as compared with Hindu, Chinese, and Japanese drama. Open to upper level non-majors with CI.

THE 4330 SHAKESPEARE FOR THE THEATRE (3)
PR: THE 3100. A close study of selected plays with special emphasis on their performance values. Open to upper level non-majors with CI.

THE 4360 THE 19TH CENTURY THEATRE REVOLUTION (3)
PR: THE 3100. Survey of the European art theatre revolution against the romantic realism of the commercial stage and its effect on subsequent theatre activity. Open to upper level non-majors with CI.

THE 4401 O' NEILL AND AFTER (3)
PR: THE 3100. A course in the function of the script for the theatre artist treating materials in the American Theatre from 1915 to 1964. Open to upper-level non-majors with CI.

THE 4442 THE COMEDY OF THE CLASSIC AND NEO-CLASSIC STAGE (3)
PR: THE 3100. 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 3100. 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 SENIOR COLLOQUIUM (4)
PR: THE 3100 and one from the following: THE 4320, THE 4330, THE 4370, THE 4401, THE 4442, THE 4480; or CI. A course for advanced students focusing on theatrical and dramatic theory in relation to actual stage practice. Either THE 4180 or THE 4562 is required of all theatre majors. Open to senior non-majors with CI.

THE 4593 HONORS SEMINAR (2)
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 4595 HONORS THESIS (1-3)
PR: THE 4594. A practical or written thesis related to the seminar and practicum and approved by the departmental honors committee.

THE 4900 DIRECTED READING (1-4)
PR: CI and CC. Readings in a 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.

- THE 4905 DIRECTED STUDIES** (1-4)
Independent studies in the various areas of Theatre. Course of study and credits must be assigned prior to registration.
- THE 4927 ADVANCED PRODUCTION INVOLVEMENT** (1)
PR: THE 3925 or CI. The rehearsal, construction, and performance of major theatrical works. Assignments are made by a faculty committee following the student's completion of a PI request form, available in the Theatre Office, and enrollment in this course. May be repeated. Open to non-majors with CI.
- 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** (1-6)
PR: CI and CC. Independent studies in the various areas of Theatre. Course of study and credits must be assigned prior to registration.
- THE 5931 SELECTED TOPICS IN THEATRE** (1-8)
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 THEATRE CRAFTS: STAGECRAFT** (3)
Required of all theatre majors. The basic materials, equipment, and skills used in scenic construction and painting for theatrical productions. An introductory course with lab. Open to non-majors.
- TPA 2223 THEATRE CRAFTS: LIGHTING** (3)
Required of all design majors. This course or TPA 2232 is required of all theatre majors. The basic equipment and skills used in lighting stage productions. An introductory course with lab. Open to non-majors.
- TPA 2232 THEATRE CRAFTS: COSTUME** (3)
Required of all design majors. This course or TPA 2223 is required of all theatre majors. Open to non-majors. The basic materials, equipment, and skills used in costume construction for the stage. An introductory course with lab.
- TPA 3004 MEANS OF VISUAL EXPRESSION** (3)
PR: Completion of the four required 2000 level courses. The study of presentational techniques for visual design and technology as applied to the development of visual dynamics. Required of all theatre majors. Open to non-majors with TPA 2200 and CI.
- 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 3248 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 3260 SOUND FOR THE STAGE** (3)
PR: TPA 2223. 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 3601 STAGE MANAGEMENT** (2)
PR: TPA 2200, TPA 2223, or TPA 2232. 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 3810 INTRODUCTION TO PUPPETRY** (3)
PR: Completion of the four required 2000 level courses. Principles and methods of puppetry with a historical survey of major forms and practical problems with laboratory production. Open to nonmajors with CI.
- TPA 3840 PUPPETRY PERFORMANCE AND PRODUCTION** (4)
PR: TPA 3810. 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 4020 LIGHT DESIGN** (4)
PR: ART 3301C, TPA 3221, TPA 4208 and portfolio review. The aesthetic and practical application of the elements of design in lighting for theatre presentation. A requirement in the design track/lighting.
- TPA 4040 COSTUME DESIGN** (4)
PR: ART 3301C, THE 4264, TPA 2232 and portfolio review. The aesthetic and practical application of the elements of design in costume for theatre presentation. A requirement in the design track/costume.
- TPA 4060 SCENE DESIGN** (4)
PR: TPA 4208, THE 4266, ART 3301C and portfolio review. The aesthetic and practical application of the elements of design in scenery for theatre presentation. A requirement in the design track/scenic.
- TPA 4077 SCENE PAINTING** (2)
PR: TPA 3004. A practical course in the painting of stage scenery: media and application. Open to upper level non-majors with CI.
- TPA 4208 STAGECRAFT AND DRAFTING** (3)
PR: TPA 3004. A practical course in drafting for the stage, scenic construction and application. A requirement in the design/scenic and lighting. Open to upper level non-majors with CI.
- TPA 4231 COSTUME CONSTRUCTION** (3)
PR: TPA 2232 and TPA 3004. 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 4273 STAGE PROPERTIES: TECHNIQUES AND MATERIALS STUDIO** (2)
PR: TPA 3004. Demonstration of and experience with materials used in construction of stage properties. Modeling of prototypes and basic casting techniques. Organization of shop. Open to upper level non-majors with CI.
- TPP 2110 VOICE-BODY-IMPROVISATION** (3)
Exploring the elements basic to acting skills, a participation course. Required of all theatre majors. Open to non-majors.
- TPP 3111 WORKSHOP FOR TEXT ANALYSIS** (3)
PR: Completion of the four required 2000 level theatre courses. An introduction to the analysis of distinct styles of plays; normally to include at least one contemporary realistic play and one classical play. Focus will be on the actor's or director's close reading of a script as a preparation for performance. Required of all theatre majors. Open to non-majors with TPP 2110 and CI.
- TPP 3121 IMPROVISATION I** (3)
PR: Completion of the four required 2000 level courses. An intensive study in improvisation as an enhancement of the actor's skills. Exercises and theatre games as flexible forms which accommodate improvisation and physical invention are examined and used to develop group creativity. Open to non-majors with CI.
- TPP 3235 THEATRE FOR SPECIAL AUDIENCES** (3)
PR: Completion of the four required 2000 level courses and/or CI. The preparation and performance of a production for a special audience (ethnic, children, aged, institutionalized, etc.) With CI, may be repeated one time as additional elective credit (total of 6 hours). Open to non-majors with CI.
- TPP 3500 BODY DISCIPLINES** (2)
PR: Completion of four required 2000 level theatre courses. 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. Required of all theatre majors with a performance concentration. May be repeated for credit. Open to upper level non-majors with CI.
- TPP 3580 SPECIAL SKILLS IN MOVEMENT** (2)
PR: TPP 3500. 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.
- TPP 3790 VOICE PREPARATION FOR THE ACTOR** (2)
PR: Completion of the four required 2000 level theatre courses. 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.
- TPP 4140 STYLES OF ACTING** (3)
PR: TPP 4150 or TPP 4230, and audition. Methodology and styles. Examination of the actor's craft and skills needed to fulfill

the demands of various theatre forms. Special attention will be paid to the history of acting styles. Required of all theatre majors with a performance concentration.

TPP 4150 SCENE STUDY I (3)

PR: TPP 3111 and audition. Basic scene study. Special problems in movement and speech to be integrated with character development, rehearsal techniques, and performance composition. Required of all theatre majors with a performance concentration.

TPP 4152 SCENE STUDY II (3)

PR: TPP 4150 Intermediate scene study. Required of all theatre majors with a performance concentration.

TPP 4180 ADVANCED SCENE STUDY (3)

PR: TPP 4140 and audition. The aesthetics of acting. The various theories of art. A studio course. Required of all theatre majors with a performance concentration.

TPP 4220 AUDITION WORKSHOP FOR THE ACTOR (2)

PR: TPP 4150 or TPP 4230. Preparation for professional audition; discussion of professional objectives. Open to upper level non-majors with CI.

TPP 4230 LABORATORY WORKSHOP IN PERFORMANCE (3)

PR: TPP 3111 and audition. Special workshop in advanced techniques based upon individual problems and needs. May be repeated twice (for a total of 9 hours credit). Open to upper level

non-majors with CI.

TPP 4250 MUSIC THEATRE WORKSHOP (3)

PR: TPP 3111. Special problems in acting as applied to the musical theatre with emphasis on singing and dance. Open to upper level non-majors with CI.

TPP 4310, 4311 DIRECTING I, II (3,3)

PR: TPP 4150 or TPP 4230. 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.

TPP 4600 WRITING FOR THE THEATRE I (3)

PR: THE 3100, TPA 3004, and TPP 3111. 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.

TPP 4920 SENIOR WORKSHOP FOR ACTORS (3)

PR: TPP 4152, TPP 3500, TPP 3790. A workshop in advanced vocal and movement techniques. Required for all theatre majors with a performance concentration.

COLLEGE OF NURSING

UNIVERSITY OF SOUTH FLORIDA - 1993/94 UNDERGRADUATE CATALOG

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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 3007 NURSING PROCESS (2)

PR: RN student. PR or COR: NUR 3065C. This course focuses on the nursing process and explores in depth the five phases, assessment, analysis, planning, implementation, and evaluation, as they apply to the care of clients.

NUR 3065C CLIENT ASSESSMENT I (2)

PR: Permission of faculty. Focus is on application of history taking and physical appraisal skills basic to biopsychosocial assessment across the life span. Emphasizes assessment phase of the nursing process and the use of skills and findings in the provision of nursing care.

NUR 3066C INTRODUCTION TO COMMUNITY HEALTH NURSING (2)

PR: Admission to Nursing major or permission of faculty. Focuses on theories, concepts and principles essential to the nursing care of families across the life span in primary care settings. Emphasis is on prevention, health promotion and health maintenance.

NUR 3105 INTRODUCTION TO PROFESSIONAL NURSING (3)

PR: Admission to nursing major or permission of faculty. Introduction to: historical development, philosophical, conceptual and theoretical bases of professional nursing; evolving roles and responsibilities of nurses; socio-economic-political-legal-ethical aspects; the health care system; issues and trends in health care and nursing.

NUR 3456 NURSING PROCESS II (2)

PR: NUR 3105, 3065C, 3066C, 3615, 3615L. Focuses on theories, concepts and principles essential to nursing of the childbearing family; uses the nursing process in providing family centered maternal/newborn care during normal intrapartum and postpartum parenting experiences, and selected high risk childbearing situations.

NUR 3456L NURSING INTERVENTION II (3)

PR: NUR 3105, 3065C, 3066C, 3615, 3615L. Clinical nursing practice course linked with NUR 3456. Focuses on nursing of normal and selected high-risk maternal-newborn clients during normal intrapartum and postpartum parenting experiences. Includes experience in primary and secondary care settings.

NUR 3535 NURSING PROCESS III (2)

PR: NUR 3105, 3065C, 3066C, 3615, 3615L. Explores the nursing process as it relates to the psychiatric-mental health needs of clients across the life span. Psychopathology, psychopharmacology, nutrition, community mental health, growth and development, and other pertinent theories and concepts are integrated.

NUR 3535L NURSING INTERVENTION III (2)

PR: NUR 3105, 3065C, 3066C, 3615, 3615L. Clinical intervention based on the nurse-client relationship. Provides opportunities to apply knowledge from growth and development, biopsychopathology and to explore use of self for therapeutic communication and interpersonal relationships with clients in psychiatric/mental health nursing.

NUR 3615 NURSING PROCESS I (3)

PR: Admission to the Nursing major or permission of faculty. Introduction to the nursing process and its application with clients

in primary, secondary and tertiary care settings. Focuses on the nursing process and concepts basic to nursing practice. Concepts from physical, natural and social sciences are integrated.

NUR 3615L NURSING INTERVENTION I (2)

PR: NUR 3065C or concurrent. Introduction to clinical nursing practice in primary and secondary care settings. Focus is on beginning application of the nursing process with clients across the life span, and the practice of psychomotor and psychosocial skills.

NUR 3706 NURSING CONCEPTS IN SECONDARY CARE (4)

PR: RN Student; CI. The focus of this course is on the concepts, theory, and principles underlying the clinical nursing management of clients/patients of all ages with health-illness problems.

NUR 3706L NURSING PRACTICUM I (2)

PR: RN student; CI. The focus of this course is on the implementation of concepts, theory and principles underlying the clinical nursing management of clients/patients of all ages with health-illness problems.

NUR 3826 ETHICAL-LEGAL ASPECTS IN NURSING AND HEALTH CARE (2)

PR: Permission of faculty. Introduction to contemporary bioethical 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 3827 LEADERSHIP MANAGEMENT ASPECTS IN COMMUNITY HEALTH NURSING (2)

PR: NUR 3066C and 4256L. Focuses on nursing concepts and theories underlying community/public health. Explores the evolving, autonomous and leadership roles of the community health nurse and the socio-political-economic environments that impact upon nursing practice in the community health care system.

NUR 4040 TRANSCULTURAL NURSING (2)

Open to both students and care givers in health-related fields. Designed to assist students to become aware of own values as related to various cultural groups and to identify health practices and beliefs of these groups, health resources available and adaptive measures by care givers to meet their needs.

NUR 4050C SPECIALIZED TECHNIQUES IN CHILD HEALTH ASSESSMENT (3)

Designed to teach the reliable administration and interpretation of the NCAST II and the HOME instruments. Inter-observer reliability will be achieved through observation of parent-child interaction.

NUR 4165 INTRODUCTION TO RESEARCH (2)

PR: Permission of faculty. Introduction to nursing research with focus on the steps of the research process and the identification of researchable problems in nursing practice.

NUR 4285C NURSING PROCESS IV (1)

PR: NUR 3456, 3456L, 3535, and 3535L. Nursing of the well elderly in primary care settings. Includes aging theories; biopsychosocial assessment; therapeutic relationships; nutritional, psychosocial, and socio-economic factors related to the health of the elderly.

NUR 4256 NURSING PROCESS V (2)

PR: NUR 3456, 3456L, 3535, and 3535L. Concurrent with NUR 4256L. Focus on nursing care of clients across the life span in secondary and tertiary care settings. Emphasis is on interferences in cell growth and proliferation, alterations in metabolic, regulatory mechanisms and elimination. Concepts from physical, natural and social sciences and community health are integrated.

NUR 4256L NURSING INTERVENTION IV (4)

PR: NUR 3456, 3456L, 3535, and 3535L. Concurrent with NUR 4256. Clinical nursing practice in secondary, tertiary and community health care settings with clients of all age groups. Includes care of clients with problems in cell growth and proliferation and with interferences in metabolic, regulatory mechanisms and elimination. Includes essential psychomotor skills.

NUR 4257 NURSING PROCESS VI (2)

PR: Nur 4256L and 4256. Concurrent with NUR 4257L, 4258, 4265. Focuses on nursing care of clients (across the life span) in secondary and tertiary care settings. Emphasizes selected altera-

tions in metabolic, regulatory mechanisms, elimination, and reproductive functions. Concepts from physical, natural and social sciences and community health are integrated.

NUR 4257L NURSING INTERVENTION V (6)

PR: Nur 4256 and 4256L. Concurrent with NUR 4257, 4258, and 4265. Clinical nursing practice in secondary, tertiary and community health care settings with clients of all age groups. Focus includes care of clients with interferences in metabolic and regulatory mechanisms, elimination, reproductive system function, oxygenation, mobility and sensory function. Includes essential psychomotor skills.

NUR 4258 NURSING PROCESS VII (2)

PR: NUR 4256 and 4256L. Concurrent with NUR 4257, 4257L, and 4165. Focus on nursing care of clients (across the life span) in secondary and tertiary care settings with interferences in oxygenation. Concepts from physical, natural and social sciences and community health are integrated.

NUR 4265 NURSING PROCESS VIII (2)

PR: NUR 4256, 4256L. Concurrent with NUR 4257, 4257L, and 4258. Focus on nursing care of clients (across the life span) in secondary and tertiary care settings with selected interferences in mobility and sensory perception. Concepts from physical, natural and social sciences and community health are integrated.

NUR 4607 NURSING CONCEPTS IN PRIMARY CARE (4)

PR: RN student; CI. Focuses on concepts and principles essential to nursing clients across the life span in the community setting.

NUR 4607L NURSING PRACTICUM II (3)

PR: RN; CI. Integrates the concepts and content from NUR 4707 with clients across the life span into clinical settings which include public health agencies, VNA, and home health agencies.

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 4827C LEADERSHIP/MANAGEMENT CONCEPTS FOR NURSING PRACTICE (4)

PR: RN; CI. Provides a basis for developing leadership skills and management techniques with individuals and groups in selected

health care setting.

NUR 4837 LEADERSHIP/MANAGEMENT AND ROLE TRANSITION (3)

PR: NUR 4257L. Provides opportunities to apply principles of leadership and management to current practice as experienced in the preceptorship, to explore roles of the various health team members, to analyze legal/ethical parameters of current practice and to examine one's philosophy of nursing and its implications for practice.

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 to maximum of 5 credits.

NUR 4935 SELECTED TOPIC 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 4943L NURSING PRACTICUM III (4)

PR: All preceding courses in prescribed curriculum plan or permission of Dean. Individually planned experience in a clinical and/or functional area of professional nursing which is related to students' professional goals. Associated seminars and/or institutes.

NUR 4946L PRECEPTORSHIP (6)

PR: NUR 4257, 4257L, 4258, 4266. Concentrated clinical nursing practice (preceptorship) under faculty guidance. The nature and goals of the experience will be determined collaboratively by students, faculty and personnel from cooperating agencies where students elect experience.

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 up to 2 credit hours.

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College of Education**Dean**

Associate Dean, Administration
Associate Dean, Programs
Asst. Dean, Community Relations
Asst. Dean, Clinical Studies and
Academic Advising

WILLIAM KATZENMEYER
H. EDWIN STEINER
CONSTANCE HINES
DICK J. PUGLISI
JANE YOUNG

Chairpersons:

Adult and Vocational Education
Childhood/Language Arts/Reading Education
Educational Leadership
Educational Measurement / Research
Music Education
Psychological and Social Foundations
Secondary Education
Special Education

WILLIAM BLANK
E. SHIRLEY RAINES
DONALD ORLOSKY
BRUCE HALL
CHRIS DOANE
E. MICHAEL CURTIS
HOWARD JOHNSTON
JAMES PAUL

Directors:

Academic Computing
Center for Child & Family Studies
Children's Center
Florida Center of Instructional
Computing (Acting)
Graduate Studies
Grants & Contracts
Sponsored Programs & Program Review
Institute for Instructional Research
and Practice
Institute for At-Risk Infants, Children
and Youth and their Families
National Resource Center for
Middle Grades/High School Education
School Management Institute
School of Physical Education, Wellness,
& Sports Studies
South Florida Educational Planning Council

ANDRIA TROUTMAN
JAN MCCARTHY
JAMES W. BARNARD
STEPHANIE VAN DEVENTER
CONSTANCE HINES
LILIAN BAUTISTA-MYERS
JUDY WILKERSON
CAROLYN LAVELY
CAROLYN LAVELY
SANDRA SCHURR
KAROLYN SNYDER
LOUIS BOWERS
DICK J. PUGLISI

Stavros Center for Free Enterprise
and Economic Education
Clinical Education & Student Personnel
SunCoast Area Teacher
Training Program (SCATT)
Teacher Evaluation & Assessment Center
SunCoast Area Teacher Training Center
for Excellence Research Program

DICK J. PUGLISI
JANE YOUNG
JOYCE SWARZMAN
DON PETERSON
CONSTANCE HINES

College of Engineering**Dean**

Associate Dean for Academics
Associate Dean for Computing Services
Associate Dean for Research
Assistant Dean

MICHAEL G. KOVAC
MELVIN W. ANDERSON
J. ANTHONY LLEWELLYN
ROBERT P. CARNAHAN
ANDREW BARRETT

Chairpersons:

Chemical Engineering
Civil Engineering and Mechanics
Computer Science and Engineering
Electrical Engineering
Industrial and Management
Systems Engineering
Mechanical Engineering

RICHARD GILBERT
WAYNE F. ECHELBERGER, JR.
ABRAHAM KANDEL
ELIAS K. STEFANAKOS

PAUL E. GIVENS
RONALD H. HOWELL

Directors:

Coordinator of Advising
Center for Microelectronics Research
Center for Urban Transportation Research
College of Engineering Facilities
Development
Lakeland
Minority Engineering Programs
Southern Technology Applications Center

GEORGE R. CARD
EARL J. CLAIRE
GARY BROSCOR
HORACE GORDON
JOANN ALESSANDRINI
FRANK YOUNG
JOY O'SHIELDS
TBA

College of Fine Arts**Dean**

Associate Dean
Associate Dean

JOHN L. SMITH
VIRGINIA BRIDGES
JOHN W. COKER

Chairpersons:

Art
Dance
Music
Theatre
USF Contemporary Art Museum

JANET MARQUARDT-CHERRY
TIMOTHY WILSON
JACK HELLER
DENIS CALANDRA
MARGARET MILLER

Directors:

Development
SYCOM

GLENDIA HODGSON
PAUL RELLER

Coordinator:

Fine Arts Events
Production
Program for Research in Arts
and Technology (PRAT)

CARL MUSSON
PATRICK FINELLI
TBA

Florida Mental Health Institute**Dean**

Associate Dean
Assistant Dean
Director, Administration

MAX C. DERTKE
CATHERINE BATSCHE
CYNTHIA J. STARK
FRANCIS M. PARIS

Chairpersons:

Department of Aging & Mental Health
Department of Child & Family Studies
Department of Community Mental Health
Department of Law & Mental Health

DONNA COHEN
ROBERT M. FRIEDMAN
MICHAEL KNOX
JOHN PETRILA

Directors:

Health Services
State Liaison
Florida Autism Program
Research & Training Center for
Children's Mental Health
The USF Center for HIB Education
& Research
Professional Development Center

JOE GONZALEZ
PATRICIA ROBINSON
GLEN DUNLAP
ROBERT FRIEDMAN
MICHAEL KNOX
JOHN MULLINS

School of Continuing Education

Dean (Interim)	RICHARD TAYLOR
Directors:	
Administration	LYNN ROBERTS
Division of Lifelong Learning	LEE LEAVENGOOD
Conferences and Institutes	LAURA ELLENBURG
Information Services	NAN KUTCHER
Division of Special Programs/PACE (Acting)	CAROL HARNEIT
Travel-Study	JULIE HALE
Community Music	JUDITH CARRON
College of Arts and Sciences	
English Language Institute	TBA
MERIT	YVONNE CADIZ
Institute of Government	VIRGINIA ROO
College of Business Administration	
Center for Organizational Effectiveness	TBA
Center for Professional Development	
Executive MBA	MARYANNE M. ROUSE
MBA Program for Physicians	MARYANNE M. ROUSE
College of Education	MARYANNE M. ROUSE
College of Engineering	DANIEL L. GARDNER
College of Fine Arts	RONALD HOWELL
	JOHN COKER

Graduate School

Dean (Interim)	RICHARD L.. MANSELL
Associate Dean	TBA

Undergraduate Studies

Dean	WILLIAM H. SCHEUERLE
Associate Dean	THELMA D. BENTON
Assistant Dean for Special Programs	STUART SILVERMAN
Director, Career Resource Center (Acting)	B. RAY EASTERLIN
Director, Community College Relations	WILLIAM J. CROCKER
Director, Evaluation and Testing	TERESA FLATEBY
Director, Orientation	CYNTHIA A. SWARTZFAGER
Program Director, Project Thrust	MACK DAVIS
Program Director, McNair Achievement Program	JOAN HOLMES
Program Director, Student Academic Support Services	JANE REED
Coordinator, Academic Advising	SYLVIA SALTER
Coordinator, Athletes Advising	KATHERINE MILLER
Coordinator, Academic Services for Student with Disabilities	ROBERTA ARMSTRONG
Coordinator, Off-Campus Term Program	D. KEITH LUPTON
Coordinator, Personal Excellence Program	TBA
Coordinator, Student Support Services	JOAN HOLMES
Air Force ROTC	Maj PATRICIA B. LARSON
Army ROTC	LT COL JOSEPH SOLTAS

USF at Fort Myers

Campus Dean and Executive Officer	DAVID C. McMORNICK
Associate Dean for Academic Affairs	ROY A. BOGGS
Director, Administration and Finance	GLENN E. NITSCHKE
Director, Student Affairs (Acting)	LINDA SUMMERS
Director, Enrollment Services (Acting)	DONNA FECIK
Director, ECC/USF Learning Resources	CHARLES RITCHIE
Director, University Relations and Development	JAMES E. HOF

USF at Sarasota

Dean and Executive Officer of USF - Sarasota	DAVID P. SCHENCK
Associate Dean	JANNA C. MERRICK
Campus Librarian	JOAN PELLAND
Director, Administrative Affairs	LYNDA BLOCK HILL
Director, Development (Acting)	SANDRA KRAWETZ
Director, Media Center	TBA

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Director, Public Affairs	SANDRA KRAWETZ
Director, Records and Registration	NANCY E. FERRARO
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New College of USF

Dean and Warden	GORDON E. MICHALSON, JR
Director, Special Project Development	JAMES W. FEENEY
Director, New College Admissions	DAVID L.. ANDERSON
Chairpersons:	
Humanities	MAGDALENA CARRASCO
Natural Sciences	SOO BONG CHAE
Social Sciences	ANTHONY ANDREWS

USF at St. Petersburg

Dean and Executive Officer	H. WILLIAM HELLER
Associate Dean, Academic Affairs	WINSTON T. BRIDGES, JR.
Director, Administration & Finance	HERMAN J. BRAMES
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Director, Poynter Library	MARY GRIGSBY
Director, Student Affairs	STEPHEN RITCH

USF at Lakeland

Center Director and Executive Officer	YVONNE L. RALSTON
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Director, Business, Finance, and Auxiliary Services	ANNE FLAIVE

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Director, Government Relations	TBA

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Executive Assistant to the Vice President	LINDA G. LYDIC
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Director, Finance & Accounting	ERIC L. WALDEN
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Director, Resource Analysis & Planning	JON BLADES
Director, Physical Plant	ADRIAN CUARTA
Director, Purchasing (Acting)	ANITA MOUNTAIN
Director, Public Safety	PAUL A. URAVICH
Director, University Budgets	JAY KARP
Director, Information Systems Services	CHARLES E. FISHER
Director, University Personnel Relations	TRUDIE E. FRECKER
Director, Telecommunications	GEORGE W. ELLIS

DEVELOPMENT AND ALUMNI

Vice President	THOMAS L. TOBIN
Associate Vice President	RANDALL S. CAIN
Associate Vice President	HARRY MILLER
Associate Vice President	TBA
Business Manager, USF Foundation, Inc.	JOHN O. SCOTT

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Senior Counsel
Senior Counsel
Associate General Counsel
Assistant General Counsel

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DEBRA A. KING
JOLINE MICELI-MULLEN
WENDY J. THOMPSON
TERRY WIMBISH

OFFICE OF RESEARCH

Vice President

Director, Sponsored Research
Director, Technology Transfer
Director, Graphicstudio

GEORGE R. NEWKOME
RICHARD B. STREETER
KENNETH G. PRESTON
ALAN EAKER

STUDENT AFFAIRS

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Associate Vice President
and Dean of Students

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CHARLES F. HEWITT

Associate Vice President,
Housing and Auxiliary Services
Associate Dean of Students
Associate Dean of Students
Associate Dean of Students
Assistant to the Associate
Dean of Students

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Director, Counseling Center for
Human Development, Veterans Affairs
Director, Student Health Services
Director, Campus Recreation
Director, Financial Aids
Director, Student Publications
Director, University Center
Coordinator, Veteran Affairs

RAYMOND C. KING
TROY COLLIER
WANDA LEWIS-CAMPBELL
VANESSA E. DIAZ

WILLIAM ANTON
MARIA ANDERSON
ANDREW HONKER
GWYN FRANCIS
RICHARD WILBER
PHYLLIS MARSHALL
MEREDITH NICKLES

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Vice President

Director, Community Relations
Director, Media Relations & Publications
General Manager, Public Broadcasting

J. MARK LONO
ANN ROSS
DANIEL CASSEDAY
JAMES B. HECK

FACULTY

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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 and year of terminal degree. (A semicolon between degrees indicates different institutions.) [*Charter faculty]

AANGEENBURG, ROBERT, Chairperson-Professor (Geography), 1989
B.S.; M.S., Ph.D., University of Wisconsin, 1965

ACEVEDO-DUNCAN, MILDRED E.C., Visiting Assistant Professor (Neurology), 1991
B.A.; M.A.; Ph.D., University of California, 1983

ACHENBACK, KARL E., Visiting Associate Professor (Law and Mental Health), 1979
B.A.; Ph.D., University of Florida, 1966

ACKERMANN, JOHN R., Professor (Surgery), 1983
M.B., C.H.B., M.D., University of Cape Town, South Africa, 1965

ADAIR, W. LEE, JR., Professor (Biochemistry), 1975
Sc.B.; Ph.D., Georgetown University, 1972

ADEIGBOLA, MARIA R., Visiting Instructor (Childhood Education), 1992
B.A.; M.A., Jersey City State Graduate School, 1985

ADELMAN, HAROLD M., Associate Professor (Internal Medicine), 1988
B.A.; M.D., Bologna University, 1969

AGOSTI, STEVEN J., Assistant Professor (Pathology), 1990
B.S.; M.D., Medical College of Virginia, 1985

AL-ARIAN, SAMI A., Associate Professor (Computer Science & Engineering), 1986
B.S.; M.S., Ph.D., North Carolina State University, 1985

ALBERS, MICHELLE M., Visiting Assistant Professor (Nursing), 1987
B.A., M.S., Ph.D., Ohio State University, 1987

ALBERTO, LOUIS M., Associate Professor (Accounting), 1986
B.S.; M.A., M.P.A.; J.D., Seton Hall University Law School, 1972

ALBERTS, W. MICHAEL, Associate Professor (Internal Medicine), 1983
B.A.; M.D., University of Illinois, 1977

ALBRECHT, TERRANCE L., Chairperson-Professor (Communication), 1991
B.A., M.A., M.L.I.R., Ph.D., Michigan State University, 1978

ALBRIGHT, PATRICIA B., Instructor (Nursing), 1992
B.S.N., M.P.H., University of North Carolina at Chapel Hill, 1985

ALBRINK, MICHAEL H., Assistant Professor (Surgery), 1989
B.S.; M.D., Ohio State University, 1978

ALESSANDRINI, JOANN G., Director (Engineering), 1985
B.A., Notre Dame, 1981

ALEXANDER, LILIA, Assistant In Research (Suncoast Gerontology Center), 1987
B.A.; M.A., University of Colorado, 1980

ALEXANDER, MARY B., Assistant Professor (Information Systems & Decision Sciences), 1988
B.A., M.A., M.B.A., Ph.D., Indiana University, 1989

ALLEN, HAROLD C., Associate Professor (Information Systems & Decision Sciences), 1967
B.A.; M.B.A.; Ph.D., University of Florida, 1969

ALLEN, NANCY M., Instructor/Librarian (Sarasota Library), 1992
B.A.; M.S., Atlanta University, 1978

ALLYN, JANET F., Director (Child Development), 1977
B.A.; M.A., University of South Florida, 1974

ALTUS, PHILIP, Professor (Internal Medicine), 1976
A.B.; M.D., State University of New York, Upstate Medical Center, 1971

ALVAREZ, MARVIN R., Professor (Biology), 1966
B.S., M.S., Ph.D., University of Florida, 1964

AMEN, MICHAEL J., Associate Professor (Government & International Affairs), 1982
B.A.; M.A.; Ph.D., University of Geneva, 1976

AMMONS, J. MICHAEL, Assistant Professor (Electrical Engineering), 1980
B.A., M.S., Ph.D., University of South Florida, 1980

ANDERSON, DONNA J., Assistant Professor (Psychological and Social Foundations), 1987
B.A.; M.A., Ed.S., Ph.D., University of South Florida, 1984

ANDERSON, E. CHRISTIAN, Professor (Psychological and Social Foundations), 1964
B.S., M.A., Ph.D., University of Michigan, 1964

ANDERSON, MELVIN W., Associate Dean (Engineering) - Professor (Civil Engineering and Mechanics), 1969
B.S., M.S., Ph.D., Carnegie - Mellon University, 1967, P.E.

ANDERSON, NANCY A., Associate Professor (Childhood Education), 1985
B.S.; M. Ed., Ed. D., University of Southern Mississippi, 1982

ANDERSON ROBERT L., Associate Dean (Business Administration) - Professor (Marketing), 1971
B.S., M.S., Ph.D., North Texas State University, 1971

ANDERSON, WILLIAM M., Visiting Associate Professor (Health Science), 1992
B.A.; M.S.; M.D., Eastern Virginia Medical School, 1978

ANDREWS, ANTHONY P., Chairperson-Professor (Social Sciences), New Col-

lege of USF, 1981
B.A.; M.A., Ph.D., University of Arizona, 1980

ANGROSINO, MICHAEL V., JR., Professor (Anthropology), 1972
B.A.; Ph.D., University of North Carolina, 1972

ANKER, JAMES M., Professor (Psychology), 1974
A.B., M.A., Ph.D., Catholic University of America, 1957

ANTON, JOHN P., Professor (Philosophy), 1982
B.S., M.A., Ph.D., Columbia University, 1954

APFELBECK, NORMA R., Assistant In (College Administration), 1989

ARCHER, KEVIN, Assistant Professor (Geography), 1991
B.A., M.A.; Ph.D., Johns University, 1990

ARENDASH, GARY W., Associate Professor (Biology), 1981
B.S.; Ph.D., University of California, San Francisco, 1978

ARHAR, JOANNE M., Assistant Professor (Education Leadership), 1990
B.A., M.A.; Ed.D., University of Cincinnati, 1990

ARMSTRONG, ROBERTA M., Coordinator (Undergraduate Studies), 1987
B.A., M.A., University of South Florida, 1987

ARNADE, CHARLES W., Professor (Government & International Affairs), 1961
A.B., M.A., Ph.D., University of Florida, 1955

ARNETT, DONNA, Visiting Assistant Professor (Internal Medicine), 1992
B.S., M.S.; Ph.D., University of North Carolina at Chapel Hill, 1991

ARNOLD, DEBORAH, Counselor/Advisor (Undergraduate Studies), 1989
B.A., M.Ed., University of Florida, 1981

ARRINGTON, JOHN A., Visiting Assistant Professor (Radiology), 1991
B.S., M.D., University of South Florida, 1983

ARSENAULT, KATHLEEN H., Associate University Librarian (University Libraries), St. Petersburg Campus, 1982
B.A., M.S.L.S., Simmons College, 1973

ARSENAULT, RAYMOND O., Professor (History), St. Petersburg Campus, 1980
B.A.; M.A., Ph.D., Brandeis University, 1980

ATHAN, STEPHAN, Associate In (Engineering), 1989
B.S.E.E., University of South Florida, 1980

AUBEL, JOSEPH L., Associate Professor (Physics), 1964
B.S., Ph. D., Michigan State University, 1964

AUSBON, WILLIAM W., Visiting Professor (Pediatrics), 1982
B.A.; M.D., Medical College of Alabama, 1956

AUSTIN, RICHARD A., Assistant Professor (Secondary Education), 1990
B.S.; M.E.D., Ph.D., University of Florida, 1983

BABIONE, LOIS, Assistant In Research (Pediatrics), 1980
B.S., M.S., Florida State University, 1975

BAEKEY, PAUL, Assistant Professor (Pathology & Laboratory Medicine), 1988
B.S., M.S., M.D., University of Florida, 1983

BAER, ROBERTA D., Associate Professor (Anthropology), 1984
B.A.; M.A.; M.A., Ph.D., University of Arizona, 1984

BAGLEY, DANIEL S., III, Associate Professor (Mass Communications), 1979
B.S.; M.B.A.; Ph.D., University of Tennessee, 1977

BAHNA, SAMI L., Visiting Professor (Pediatrics), 1992
M.D.; Ph.D., Alexandria University, 1970

BAILE, WALTER F., JR., Associate Professor (Psychiatry), 1986
B.A.; M.D., University of Pavia, Italy, 1972

BAKER, CARLETON H., Professor (Physiology), 1971
B.A.; M.A., Ph.D., Princeton University, 1955

BAKER, CAROL L., Visiting Instructor (Psychiatry & Behavioral Medicine), 1984
B.A.; M.S.W., Florida State University, 1973

BAKER, GREGORY R., Research Assistant Professor (Chemistry), 1989
B.S., Ph.D., Louisiana State University, 1989

BALFOUR, ALAN, Associate Professor (Management), St. Petersburg Campus, 1980
B.A.; M.L.I.R.; J.D.; Ph.D., Michigan State University, 1975

BALIS, JOHN U., Chairperson - Professor (Pathology and Laboratory Medicine), 1978
M.D., National University of Athens, Medical School, Greece, 1957

BALL, WILLIAM L., Assistant in Research (CUTR), 1988
B.S.; M.A., University of South Florida, 1988

BALLESTER, OSCAR F., Assistant Professor (Internal Medicine), 1989
M.D., University of Cordoba, Argentina, 1971

BALSERA, ALICIA F., Associate in (Engineering), 1986
B.S. Che.; M.S. Che., University of South Florida, 1986

BALSON, PETER S., Visiting Associate Professor (Geology), 1991
B.S., Ph.D., Polytechnic of North London, 1979

BALTES, MICHAEL R., Visiting Assistant in (CUTR), 1992
B.A., M.P.A., University of South Florida, 1992

BANDYK, DENNIS P., Professor (Surgery), 1991
B.S.E., M.S.E., M.D., University of Michigan School of Medicine, 1975

BANES, RUTH A., Associate Professor (American Studies), 1979
B.A., Ph.D., University of New Mexico, 1978

BANOOB, SAMIR N., Professor (Public Health), 1983
M.D., D.M., D.P.H., Dr.P.H., Alexandria University, Egypt, 1979

BARBER, MICHAEL J., Professor (Biochemistry), 1983

- B.Sc., M.Sc.; Ph.D., University of Sussex, 1975
- BARKHOLZ, GERALD R., Associate Professor (Childhood Education), 1968
B.S., M.Ed.; Ed.D., University of Florida, 1976
- BARLOW-RADEMEYER, IVAN K., Instructor (Anesthesiology), 1992
B.S., M.B., M.D., University of South Florida, 1991
- BARNARD, JAMES W., Professor (Psychological and Social Foundations), 1968
A.B.; M.A.; M.S., Ph.D., Yale University, 1963
- BARNES, LEWIS A., Professor (Pediatrics), 1972
A.B., M.D., Harvard Medical School, 1944 M.A. Hon.
- BARNETT, JONATHAN, Eminent Scholar (Architecture & Urban Planning), 1991
B.A., M.A., Ph.D., George Peabody College, 1961
- BARRETT, ANDREW J., Assistant Dean-Instructor (Engineering), 1982
B.A.; M.A.; Ed.D., University of Florida, 1976
- BARRIOS, MAURA, Academic Administrator (Academic Affairs), 1990
B.A., Utah State University, 1976
- BARRON, ANN, Assistant Professor (Education), 1991
B.S., M.A., Ed.D., University of Central Florida, 1991
- BARTELS, LOREN J., Associate Professor (Surgery), 1980
B.A., M.D., University of South Florida, 1974
- BARTLETT, ALTON C., Professor (Management), 1967
B.S.; Ph.D., University of Wisconsin, 1964
- BARYLSKI, ROBERT V., Research Associate Professor, (Government and International Affairs), Sarasota Campus, 1979
B.A.; M.A., Ph.D., Harvard, 1972
- BASS, DAWN A., Academic Administrator (Graphicstudio), 1990
B.A., University of South Florida, 1972
- BATES, KATHIE A., Visiting Assistant Professor (FMHI), 1993
B.A.; Ph.D.; University of South Carolina, 1992
- BATES, MARGARET L., Professor (Social Sciences), New College of USF, 1975
B.A.; M.A.; D.Phil., Oxford, 1958
- BATSCHKE, CATHERINE J., Associate Professor - Associate Dean, (FMHI - Programs), 1992
B.A.; M.A.; Ph.D., Illinois State University, 1980
- BATSCHKE, GEORGE M., Jr., Associate Professor (Psychological and Social Foundations), 1989
B.A.; M.A., Ed.D., Ball State University, 1978
- BATTAGLIN, JEANNETTE, Associate in Research (Public Health), 1993
B.S.; M.A.; New York University, 1983
- BATTANE, GARY R., Lecturer (Law and Mental Health), 1986
B.A.; M.A., University of Detroit, 1977
- BAUER, GORDON B., Assistant Professor (Social Sciences) New College of USF, 1991
B.A.; M.A.; M.S.; Ph.D., University of Hawaii, 1986
- BAUM, ROSALIE A., Associate Professor (English), 1987
A.B.; M.A.; Ph.D., University of Detroit, 1976
- BAUMGARTEN, STEVEN A., Professor (Marketing), 1976
B.I.E.; M.S., Ph.D., Purdue University, 1971
- BAUTISTA-MYERS, LILLIAN R., Academic Administrator (Education), 1992
B.A.; M.S.; Ed.D., Oklahoma State University, 1978
- BAXTER, DOROTHY E., Associate in Research (Suncoast Gerontology), 1992
B.S.; M.P.H., University of South Florida, 1991
- BAYONA-CELIS, MANUEL, Assistant Professor (Public Health), 1987
B.S., M.D., M.Sc.; Ph.D., Johns Hopkins University, 1985
- BEACH, DOROTHY R., Counselor/Advisor (Counseling Center for Human Development), 1972
B.A.; M.A.; Ed.D., Nova University, 1975
- BEASLEY, BOB L., Associate Professor (Physical Education), 1970
B.S., M.Ed.; Ph.D., Florida State University, 1968
- BECK, ROY W., Professor (Ophthalmology), 1986
A.B.; M.D., University of Pennsylvania School of Medicine, 1977
- BECKER, JEANNE L., Assistant Professor (Obstetrics and Gynecology), 1990
B.S., Ph.D., University of South Florida, 1986
- BECKER, JUDITH A., Associate Professor (Psychology), 1981
B.A.; Ph.D., University of Minnesota, 1981
- BECKMAN, RICHARD L., Assistant Professor (Visual Arts), 1991
B.A., B.F.A., M.A., M.F.A., University of New Mexico, 1990
- BEENHAKKER, ARIE, Professor (Finance), 1973
Ph.D.; Ph.D., Purdue University, 1964
- BEHNKE, ROY H., Professor - Chairperson (Internal Medicine), 1972
A.B.; M.D., Indiana University School of Medicine, 1946
- BEHRMAN, SAMUEL J., Visiting Professor (Obstetrics and Gynecology), 1992
M.B.; Ch.B.; M.Sc., University of Michigan, 1949
- BELCHER, HAROLYN M., Assistant Professor (Pediatrics), 1989
B.S., M.D., Howard University, 1982
- BELL, JAMES A., Professor-Chairperson (Philosophy), 1974
A.B.; M.A., Ph.D., Boston University, 1969
- BELL, SUSAN S., Professor (Biology), 1979
B.A.; M.S.; Ph.D., University of South Carolina, 1979
- BELLANTE, DONALD M., Professor (Economics), 1985
B.S.; M.B.A.; Ph.D., Florida State University, 1971
- BELOHLAVEK, JOHN M., Professor (History), 1970
B.A., M.A., Ph.D., University of Nebraska, 1970
- BELSOLE, ROBERT J., Professor (Surgery), 1991
B.S.; M.D., New York Medical College, 1969
- BELT, JACK W., Associate Professor (Theatre), 1966
B.A.; M.F.A.; J.D., University of Florida, 1967
- BENADUSI, GIOVANNA, Assistant Professor (History), 1988
Ph.D., Syracuse University, 1988
- BENENSON, JAMES S., Assistant in Research (Geography), 1991
B.A., M.A., University of South Florida, 1991
- BENJAMIN, WILLIAM F., Professor (Educational Leadership and Higher Education), 1968
B.A., M.A., Ph.D., George Peabody College, 1961
- BENNETT, CAROL K., Visiting Assistant Professor (Social Work), 1991
B.A., M.S.W., University of South Florida, 1985
- BENSON, KAARON, Assistant Professor (Pathology), 1989
B.S.; M.D., Medical College of Pennsylvania, 1983
- BENSON, ROBERT F., Visiting Assistant Professor (Chemistry), 1990
B.S.; M.S.; Ph.D., University of Arkansas, 1978
- BENTLEY, MARY ANN M., Lecturer (Theatre), 1976
B.A., University of South Florida, 1962
- BENTON, J. EDWIN, Associate Professor (Government and International Affairs), 1979
B.A., M.A.; Ph.D., Florida State University, 1978
- BENTON, THELMA D., Academic Administrator (Undergraduate Studies), 1969
B.S.; M.S.; Ph.D., Florida State University, 1981
- BERCU, BARRY B., Professor (Pediatrics), 1984
B.S., M.D., University of Maryland, 1969
- BERGAU, WILLIAM A., Counselor/Advisor (Academic Support), Fort Myers Campus, 1989
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 M.S., Ph.D., Polish Academy of Science, 1974
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