University of South Florida

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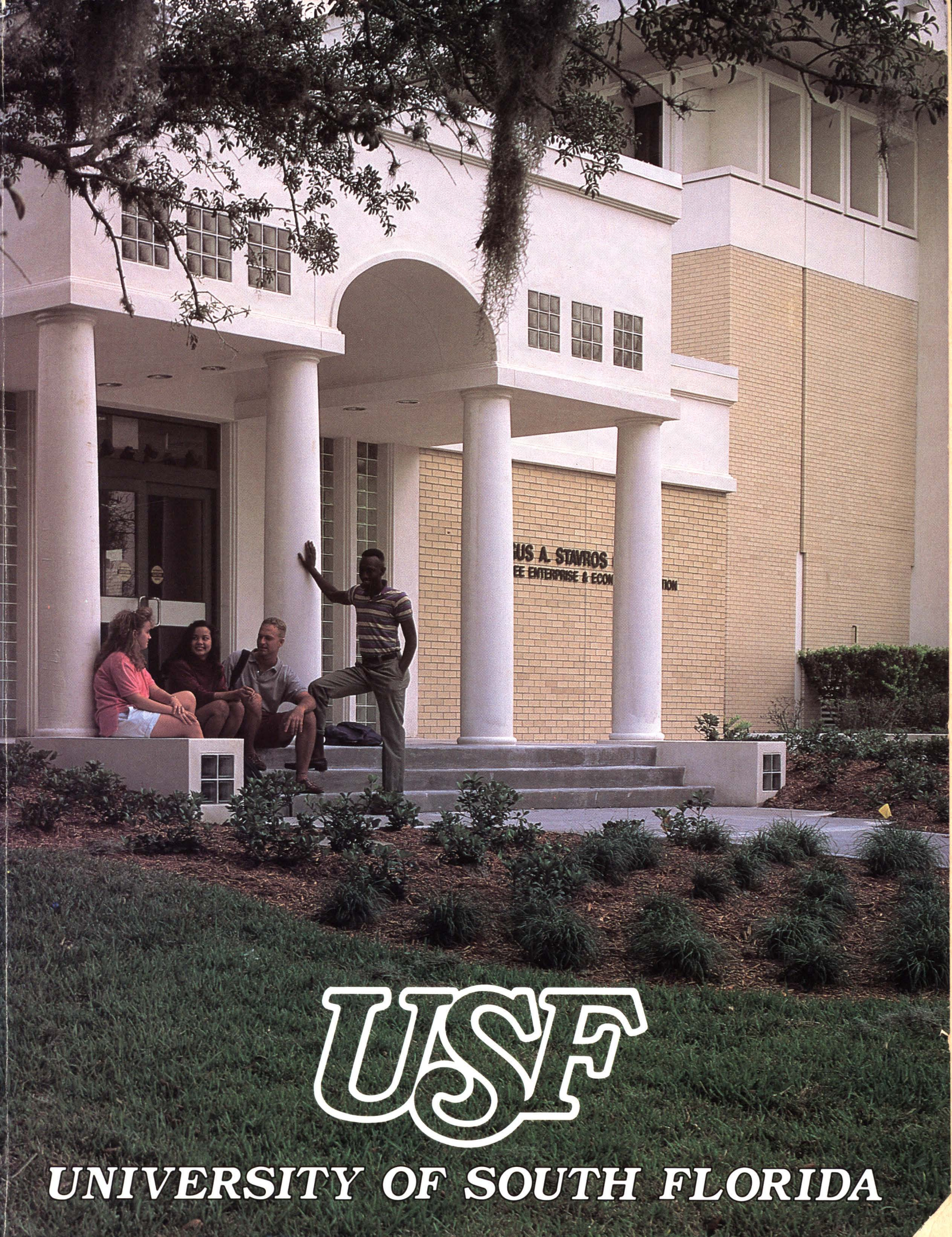

UNIVERSITY OF SOUTH FLORIDA

Catalog

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.

DEGREES* OFFERED AT THE UNIVERSITY

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

Graduate Degrees	
Master of Accountancy	M.Acc.
Master of Architecture	M.Arch.**
Master of Arts	M.A.
Master of Business Administration	M.B.A.
Master of Civil Engineering	M.C.E.
Master of Education	M.Ed.
Master of Electrical Engineering	M.E.E.
Master of Engineering	M.E.
Master of Fine Arts	M.F.A.
Master of Health Administration	M.H.A.
Master of Industrial Engineering	M.I.E.
Master of Liberal Arts	M.L.A.
Master of Mechanical Engineering	M.M.E.
Master of Music	M.M.
Master of Public Administration	M.P.A.
Master of Public Health	M.P.H.
Master of Science	M.S.
Master of Science in Chemical Engineering	M.S.C.H.
Master of Science in Civil Engineering	M.S.C.E.
Master of Science in Computer Engineering	M.S.C.P.
Master of Science in Computer Science	M.S.C.S.
Master of Science in Electrical Engineering	M.S.E.E.
Master of Science in Engineering	M.S.E.
Master of Science in Engineering Management	M.S.E.M.
Master of Science in Engineering Science	M.S.E.S.
Master of Science in Industrial Engineering	M.S.I.E.
Master of Science in Information Systems	M.S.I.S.
Master of Science in Mechanical Engineering	M.S.M.E.
Master of Science in Medical Sciences	M.S.M.S.
Master of Science in Public Health	M.S.P.H.
Master of Social Work	M.S.W.

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

Professional Degree	
Doctor of Medicine	M.D.

**See index for individual degree programs*

***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. Advisers, directors, department chairs, and deans are available to help the student understand and arrange to meet these requirements, but the student is responsible for fulfilling them. At the end of a student's course of study, if requirements for graduation have not been satisfied, the degree will not be granted. For this reason it is important for all students to acquaint themselves with all regulations and to remain currently informed throughout their college careers and to be responsible for completing requirements. Courses, programs, and requirements described in the Catalog may be suspended, deleted, restricted, supplemented or changed in any other manner at any time at the sole discretion of the University and the Florida Board of Regents.

University 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 officer 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**. The telephone number for on-campus *non-emergencies* and business is 974-2628.

ACCENT ON LEARNING

UNDERGRADUATE CATALOG OF THE UNIVERSITY OF SOUTH FLORIDA 1991-92

Vol. 33, No. 4 USF May, 1991

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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.

The University of South Florida is committed to the principles of equal education and employment opportunities without regard to race, color, sex, marital status, religion, creed, national origin, Vietnam or disabled veteran status, handicap, or age 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.

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, CHE 112 — 974-2674
Public Health, FMHI, MHC 6-238 — 974-3623

Applications and Admissions
Office of Admissions, SVC 1036 — 974-3350
New College
Office of Admissions (Sarasota) — 355-2963

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 Extended Studies, LLL 012 — 974-2695
Division of Conferences and Institutes, LLL 012 — 974-2403
International Language Institute, CPR 293 — 974-3433

Counseling
Counseling Center for Human Development, SVC 2124 — 974-2831 or 974-2866

Disabled Student Academic Services
Coordinator of Disabled Student Academic Services, SVC 2043 — 974-4309 VOICE/TTY

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

Housing: Campus Residence Halls
Office of Housing and Food Service, RAR 223 — 974-4310

Housing: Off-Campus
Student Government Office, ADM 151 — 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, LLL 012 — 974-2403

Minority Student Advising
Center for Academic Advising, SVC 2011 — 974-2645

Orientation
Office of the Director, SVC 2002 — 974-3060

PACE
LLL 012 — 974-3218

Parking and Traffic Services
University Police Department, UPB 002 — 974-2540

Pre-Admission Advising for Prospective Freshman, Transfer, International, Mature and Minority 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 Service
Office of Public Affairs, 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
2001 U.S. 98 South
Lakeland, Florida 33803
Telephone (813) 688-1221

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1991

MAY

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JUNE

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AUGUST

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OCTOBER

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NOVEMBER

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DECEMBER

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ACADEMIC CALENDAR

FALL SEMESTER, 1991

April 1	*Monday*	Last day for international applicants to apply for admission and submit all required credentials and supporting documents
June 3	*Monday*	Last day to apply for admission (except international applicants)
June 3	*Monday*	Former Student Returning Application Deadline
June 28	*Friday*	Last day for graduate students to apply for admission (except international applicants)
August 26	*Monday*	Classes begin
August 30	*Friday*	Last day to withdraw/drop and receive full refund of registration fees
August 30	*Friday*	Last day to add courses
August 30	*Friday*	Last day for late registration
August 30	*Friday*	Last day to pay fees
September 2	*Monday*	Labor Day Holiday
September 6	*Friday*	CLAST Registration Deadline
September 20	*Friday*	Graduation Application Deadline
October 5	*Saturday*	CLAST Administration Day
October 18	*Friday*	Honors Convocation (Classes Cancelled 2:00-5:00 p.m.)
October 25	*Friday*	Last day to drop or withdraw from courses without academic penalty
November 11	*Monday*	Veterans' Day Holiday
November 28-29	*Thursday-Friday*	Thanksgiving Holidays
December 10	*Tuesday*	Classes End
December11-14	*Wed.-Sat.*	Final Examinations
December 16-17	*Mon.-Tues.*	Final Examinations
December 21	*Saturday*	Commencement (Tampa)

SPRING SEMESTER, 1992

August 1	*Thursday*	Last day for international applicants to apply for admission and submit all required credentials and supporting documents
October 28	*Monday*	Last day to apply for admission (except for international applicants)
October 28	*Monday*	Former Student Returning Application Deadline
October 28	*Monday*	Last day for graduate students to apply for admission (except international applicants)
January 8	*Wednesday*	Classes begin
January 14	*Tuesday*	Last day to withdraw/drop and receive full refund of registration fees
January 14	*Tueesday*	Last day to add courses
January 14	*Tuesday*	Last day for late registration
January 14	*Tuesday*	Last day to pay fees
January 20	*Monday*	Martin Luther King Holiday
January 24	*Friday*	CLAST registration deadline
February 7	*Friday*	Graduation Application Deadline
February 22	*Saturday*	CLAST Administration Day
March 11	*Wednesday*	Last day to drop or withdraw from courses without academic penalty
March 16-20	*Monday-Friday*	Spring Semester Break
April 24	*Friday*	Classes End
April 25, 27-30	*Sat., Mon-Thur.*	Final Examinations
May 1	*Friday*	Final Examinations
May 2	*Saturday*	Commencement (Tampa)
May 3	*Sunday*	Commencement (St. Petersburg)
May 4	*Monday*	Commencement (Ft. Myers)
May 5	*Tuesday*	Commencement (Sarasota)

SUMMER TERM, 1992

SESSION A
(First Six-week Session)

January 2	*Thursday*	Last day for international applicants to apply for admission and submit all required credentials and supporting documents
March 9	*Monday*	Last day to apply for admission (except for international applicants)
March 9	*Monday*	Former Student Returning Application Deadline
May 8	*Friday*	CLAST Registration Deadline
May 11	*Monday*	Classes begin
May 15	*Friday*	Last day to withdraw/drop and receive full refund of registration fees
May 15	*Friday*	Last day to add courses
May 15	*Friday*	Last day for late registration
May 15	*Friday*	Last day to pay fees
May 25	*Monday*	Memorial Day Holiday
May 29	*Friday*	Last day to drop or withdraw from courses without academic penalty
June 5	*Friday*	Graduation Application Deadline
June 6	*Saturday*	CLAST Administration Day
June 19	*Friday*	Last day of classes

SESSION B
(Second Six-week Session)

January 2	*Thursday*	Last day for international applicants to apply for admission and submit all required credentials and supporting documents
March 9	*Monday*	Former Student Returning Application Deadline
March 9	*Monday*	Last day to apply for admission (except for international applicants)
June 5	*Friday*	Graduation Application Deadline
June 29	*Monday*	Classes begin
July 3	*Friday*	Independence Day Holiday
July 6	*Monday*	Last day to withdraw/drop and receive full refund of registration fees
July 6	*Monday*	Last day to add courses
July 6	*Monday*	Last day for late registration
July 6	*Monday*	Last day to pay fees
July 17	*Friday*	Last day to drop or withdraw from courses without academic penalty
August 7	*Friday*	Last day of classes

SESSION C
(Ten-week Session)

January 2	*Thursday*	Last day for international applicants to apply for admission and submit all required credentials and supporting documents
March 9	*Monday*	Last day to apply for admission (except for international applicants)
March 9	*Monday*	Former Student Returning Application Deadline
May 8	*Friday*	CLAST Registration Deadline
May 11	*Monday*	Classes begin
May 15	*Friday*	Last day to withdraw/drop and receive full refund of registration fees
May 15	*Friday*	Last day to add courses
May 15	*Friday*	Last day for late registration
May 15	*Friday*	Last day to pay fees
May 25	*Friday*	Memorial Day Holiday
June 5	*Friday*	Graduation Application Deadline
June 6	*Saturday*	CLAST Administration Day
June 19	*Friday*	Last day to drop or withdraw from courses without Academic Penalty
July 3	*Friday*	Independence Day Holiday
July 17	*Friday*	Last day of classes

1992

JANUARY

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MARCH

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MAY

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JUNE

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JULY

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AUGUST

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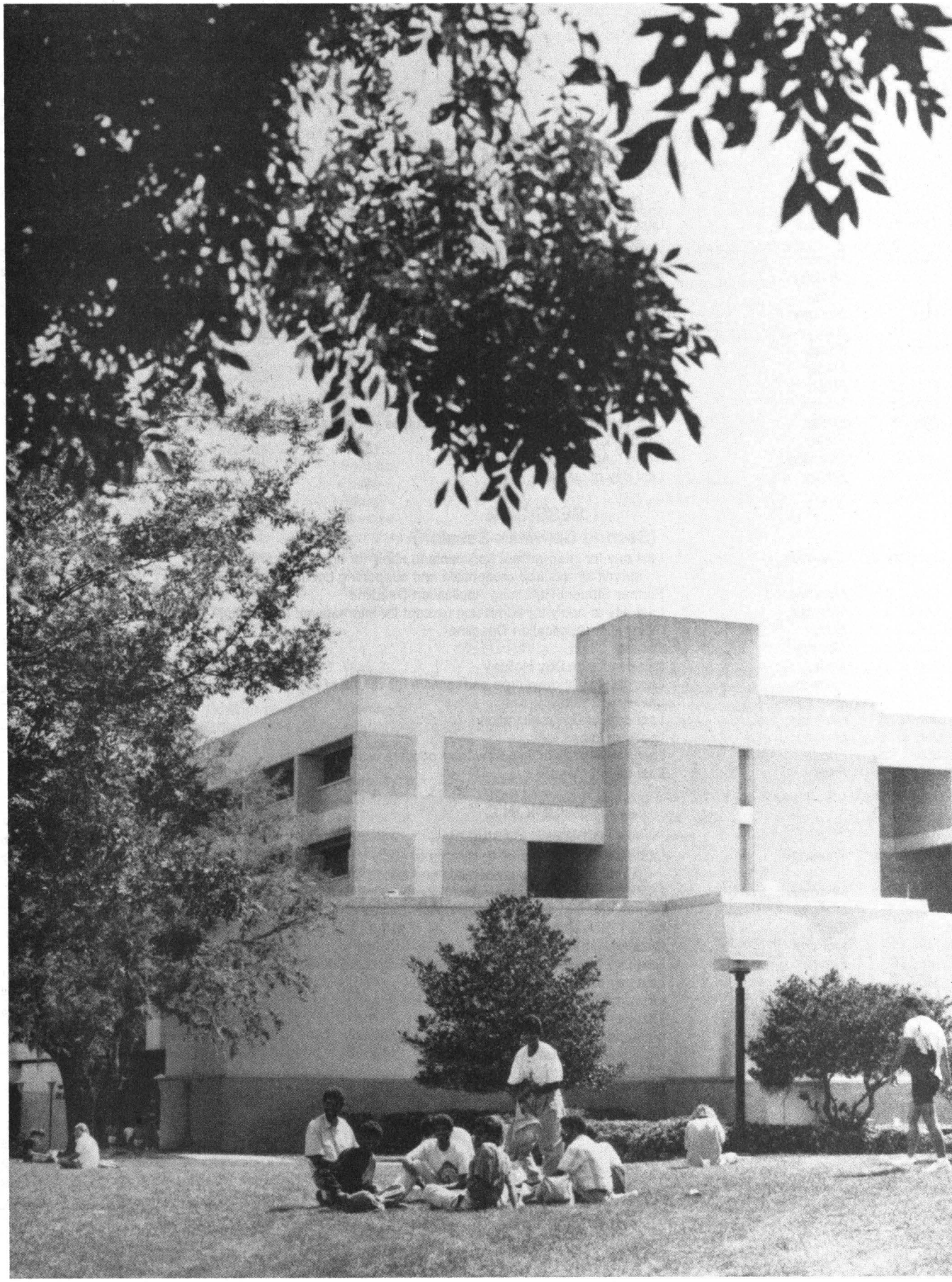


USF - A COMPREHENSIVE METROPOLITAN UNIVERSITY

The University of South Florida broke with tradition when it was founded in 1956. Unlike Florida's three older public universities, USF was located in a large metropolitan community - the bustling Tampa Bay area. This comprehensive research university was the first of its kind in Florida *purposely* located within convenient commuting distance of a large segment of the state's burgeoning population, making higher education opportunities available to the largest number of people possible. This was an idea whose time had come.

WHAT IS USF?

The University of South Florida is a thriving metropolitan university that makes the most of today's educational experience with a sharp eye on tomorrow.

USF is people of many talents: a community of more than 40,000 teacher-scholars, students and staff. Its principal purpose is teaching: Teaching grounded in research and related to the needs of its students and society.

USF is pleasant surroundings: spacious palm-and-oak shaded campuses; libaries with countless collections and reference resources; laboratories where students and scientists seek and test knowledge; and facilities designed to foster creative and recreational activities.

USF is popular programs: accomplishments that have earned national recognition in the marine sciences, fine arts and medical research.

USF is public service: an important social and cultural force in the communities surrounding and supporting it. A source of major economic influence on Florida's West Coast, it is dedicated to the application of knowledge to improve the human condition.

USF is all of this...and more. It is an intellectual and information center where people can find practical solutions to perplexing problems and share their expertise with others. It is a university which welcomes the fresh ideas and energies of each student, staff and faculty member.

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. But the University Community continues to reexamine its mission and goals so that it never loses sight of its only reason for existence -- serving you.

ACHIEVING THE UNIVERSITY'S MISSION

Mission

As the state's *first* metropolitan university, a prototype of the university of the future, the University of South Florida has sought from its beginning to apply the talents of its scholars and students to the problems facing modern society. The University's stated mission is "to achieve preeminence as a general purpose university of academic excellence." Its role as a five-campus comprehensive research university places particular emphasis upon the instructional, research and service needs of a major metropolitan region and an increasingly urbanized state and nation. In addition, USF has mounted a major campaign to achieve national recognition as an innovative educational center for intellectual, economic and cultural development that enriches the quality of life for all.

The University of South Florida is committed to the goal of becoming one of the top 25 state-assisted universities in the United States by the year 2001.

Programs Offered

A measure of success in accomplishing the University's mission, which is more significant than statistics alone, is the nature of its academic programs. Through them USF seeks to serve an increasingly diverse state and nation.

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 programs are administered by the School of Extended Studies.

This publication discusses the major undergraduate academic programs in the University which serve the people of Florida through the instruction of students, the advancement of knowledge, and community service. Undergraduate degrees are offered in 93 academic areas and graduate degrees are offered in 103 areas.

The University's first doctoral program, a Ph.D. in Biology with emphasis on Marine Biology, was established in 1968. Since then, Ph.D. programs have been established in Accounting, Applied Anthropology, Business Administration, Chemical Engineering, Chemistry, Civil Engineering, Computer Engineering, Education, Electrical Engineering, English, Engineering Science, Industrial Engineering, Marine Science, Mathematics, Mechanical Engineering, Medical Sciences, Psychology, and most recently in Public Health. USF also offers the Ed.D. in Education and a Master's in Architecture (in cooperation with Florida A&M University).

The University's teaching and research faculty, numbering more than 1,800, represents all major areas of higher learning; more than 87 percent hold doctoral degrees.

USF AT TAMPA, FORT MYERS, SARASOTA, ST. PETERSBURG, LAKELAND

University of South Florida campuses form a string of anchors for the rapidly growing metropolitan west coast of Florida. 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, Medicine, Nursing, and Public Health.

The campus is home to three hospitals or institutions that work closely with the Colleges of Medicine, Nursing, and Public Health -- the Shriner's Hospital for Crippled Children, the H. Lee Moffitt Cancer Center and Research Institute, and the 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 628,000 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 I-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 US 41. The campus serves a population of more than 473,000 persons in a two-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 programs: New College of USF and the traditional university programs. 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 traditional university programs emphasize 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 and Sarasota 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 has more than 40 buildings including a student center, classrooms, science laboratories, and student residences. A $6.1 million campus library opened in 1986. The Sudakoff Lecture and Conference Center, a gift from Sarasota philanthropist Harry Sudakoff, opened in 1985.

ST. PETERSBURG: The St. Petersburg campus is located on a 24-acre site surrounding Bayboro Harbor is 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 2,900 students. The campus houses a 127,000-volume library and media resource center, a bookstore, marine research laboratories, a cafeteria, fitness center, and 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 four master's degrees is now offered, as well as a doctorate in marine science.

The campus is recognized nationally for its marine science program, and the U.S. Geological Survey recently established its national Center for Coastal Geology there. The Florida Institute of Oceanography also is 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 Center for Interdisciplinary Studies in Culture and Society. 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 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.

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 and 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. As student demand and enrollment grows, it is anticipated that there will be a broadening of course and program offerings.

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, dance studio 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 is 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 extraordinary climate (average annual temperature 72°F) of the area. 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.

ORGANIZED FOR EFFECTIVENESS

The University is organized into seven broad areas: Academic Affairs, Administrative Affairs, Development and Alumni Affairs, Health Sciences,

Student Affairs, Sponsored Research, and Public Affairs. Chief administrators of these areas, plus the executive vice president and the general counsel, comprise the President's Staff, the primary policy-making body of the University. In addition to the President's Staff, advice and assistance to the President in the determination of policy is given by a number of advisory bodies, including University committees and organizations representing the faculty, staff and student segments of the University Community. At USF, the views of the students count; they are solicited and given serious consideration. The President, through the Chancellor of the State University System, is responsible to the Board of Regents for internal policies and the procedures of the University.

DEVELOPMENT AND ALUMNI

The Division of Development and Alumni is responsible for all university fundraising programs and alumni activities including the USF Annual Fund, major gifts and deferred giving programs, alumni services and programs, and administrative affairs of the USF Foundation, Inc. The Vice President is the University's senior official delegated by the President to formulate, implement, and manage all of USF's private fundraising and donor relation programs. The Vice President through his staff provides support to all campus fundraising efforts, maintains records and research on current and prospective donors, and advises the President and other University officials on all matters related to institutional advancement.

All gift income programs for operating and capital purposes are currently organized into Campaign USF, a $111 million, multi-year, comprehensive fundraising campaign.

Office of University Development

The Office of University Development is managed by the Associate Vice President, who is assisted by a professional staff on behalf of all university-wide development and fundraising activities. Specific functional areas within the division include planned giving, research, the Annual Fund, and coordination of all college and campus development activities.

USF Foundation, Inc.

The USF Foundation is a certified "University direct support organization" under State University System policies. It is also a non-profit Florida Corporation organized and operated to receive and administer gifts for the benefit of the University. The Foundation is governed by a lay Board of Trustees which delegates operation and management to the Executive Vice President of the Foundation, who is also Vice President for Development and Alumni Affairs.

Office of Alumni

The purpose of the Office of Alumni is to encourage continual alumni participation in the life of the University. The office works primarily through the USF Alumni Association and coordinates the activities of 20 chapters and eight societies.

All former students are considered alumni but formal membership in the Alumni Association is limited to those who pay dues, and these receive a "For Members Only" newspaper and other special benefits and services.

The Alumni Office raises and allocates scholarship funds; sponsors the USF Ambassadors; conducts several revenue programs (credit cards, license plates, USF merchandise, insurance); organizes Homecoming and other special events; presents Alumni Association awards and honors to students, faculty, and alumni; and arranges alumni participation in university committees and activities.

PUBLIC AFFAIRS

The Division of Public Affairs, headed by the Vice President for Public Affairs, is responsible for the development and administration of programs and policies to enhance the reputation of the University and to generate public and private support through effective communications. Further, the Division accents service and quality in its various internal and external communications. The Division is composed of the Office of Community Relations, the Office of Media Relations and Publications, Special Events, Public Broadcasting and Photography.

Community Relations

The Community Relations office develops, maintains and enhances the University's image in the communities served; promotes involvement of University personnel in community activities; and encourages meaningful involvement of members of the community in university programs, councils, committees, activities and special events. Activities of this office include planning of special University functions, providing official entertainment and information for University guests, recommending University personnel for community planning boards and committees, organizing professional conferences and ceremonies, and coordinating efforts of University support groups such as Town and Gown.

Media Relations and Publications

The Office of Media Relations and Publications provides support and services necessary for the development and maintenance of high quality communications between the University and the public.

The office staff writes news releases and story leads for print media and produces radio and television releases for the electronic media. Staff answers requests for information and makes referrals to the media. In addition, the staff organizes news conferences and generates publicity for University events, such as major research breakthroughs, student and faculty achievements, building dedications or other activities which may attract media attention. Media Relations and Publications is responsible for USF's general information folders, viewbooks, campus guides, USF Magazine, and the campus directory. The office also assists University departments in their individual publications needs, and is responsible for USF's faculty-staff newsletter, "*Inside USF.*"

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 nine 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.

WUSF (FM) 89.7MHz and **WSFP (FM) 90.1MHz** are member-supported radio stations serving the University, 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 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** broadcast daily readings of newspapers, magazines and other materials from Tampa and Fort Myers for the blind, print- and physically-handicapped throughout Southwest Florida. Over 200 volunteers provide material on a 24-hour a day 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.

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

ADMISSIONS AND RELATED MATTERS

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.

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 the University of South Florida. 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 $15.00 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 the University of South Florida 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 Graduate Application for Admission and the USF International Student Application for Admission, as well as the SUS Application, may be requested from the Office of Admissions, SVC 1036, University of South Florida, Tampa, Florida 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, graduate, or international student.)

Applications for admission to the M.D. program in the College of Medicine may be obtained by writing to the Associate Dean for Admissions, University of South Florida, College of Medicine (Box 3), 12901 Bruce B. Downs Blvd., Tampa, Florida 33612.

When to Apply

Applications for admission are accepted as early as 12 months before the requested entry date. Applications for admission and the $15.00 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. Application closing dates for limited access and some graduate degree programs are usually much earlier than the University application deadline. 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 University of South Florida 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 the University of South Florida. The originals or copies of the originals will not be returned to the applicant or forwarded to another institution, agency, or person.
- SAT/ACT scores of undergraduate applicants anticipating a major in teacher education may be no more than five years old.
- 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 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 55 transferable semester hours must take CLAST during the term in which 55 semester hours will be completed. Transfer students entering USF with 55 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 students accepted through July 1, beginning in April.

  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 the University of South Florida 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,* and *Social Work* 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. 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 $15.00, 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. In fall 1990, the entering freshman class had a high school grade-point average of 3.0 (on a 4.0 scale) based on grades earned in college-preparatory academic courses. For these entering freshmen, the mean SAT combined score was 1030 and the mean ACT composite score was 23.

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 (taken prior to 10/89)	ACT (taken 10/89 or later)
2.9	860	18	20
2.8	870	18	20
2.7	880	18	20
2.6	890	19	21
2.5	900	19	21
2.4	930	20	21
2.3	960	21	22
2.2	990	22	23
2.1	1020	23	24
2.0	1050	24	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). This requirement may be waived if, immediately prior to the expected USF entry date, the applicant has spent four consecutive years in a school where all courses are taught in English. 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 (nonresident 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)

The University of South Florida 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 $15.00, 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 for purpose of admission will be computed based only on grades earned in courses that are acceptable for transfer credit.

The University of South Florida accepts transfer credits only from institutions that are accredited by one of the six regional accrediting associations at the time the credits are earned. 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.

The University of South Florida reserves the right to evaluate specific courses and deny transfer credit. USF does not accept from two year institutions transfer credit for courses that are 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 for $15.00, 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 <u>all</u> 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 Stateute 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 if, immediately prior to expected USF entry date, the applicant has spent four consecutive years in a school where all courses are taught in English.) 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 <u>transferable</u> 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 $15.00, 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 criterion 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 Stateute 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 if, immediately prior to expected USF entry date, the applicant has spent four consecutive years in a school where all courses are taught in English or if the applicant has an A.A. degree from a Florida public community/junior college or SUS institution.) 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 $15.00 payable in U.S. dollars, a TOEFL score if applicable, a Statement of Financial Responsibility, a recommendation from the last institution attended, 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.)

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, immediately prior to the expected USF entry date, the applicant has spent four consecutive years in a school where all courses are taught in English, or 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.)

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

The University of South Florida 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 advisers 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 Registrar's Office (Attention: Past 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 12 or 14 semester hours respectively toward a graduate or undergraduate degree.

Applicants denied admission to the University of South Florida 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. The Faculty Committee on Student Admissions must be petitioned for a waiver of this ruling.

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 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) to return. The student may appeal to this committee either through the ARC representative for Undergraduate Studies/Academic Services or the representative for the college offering the courses in which the student seeks to enroll. 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 if 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 reentry. 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 grade-point average 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 orientation/academic advising program on the USF campus where they will take all or the majority of their courses. Former students returning receive orientation/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 of 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 adviser and should contact the college of their major soon after registration so that an official evaluation may be completed.
2. University of South Florida will accept credits only from those institutions accredited by one of the six regional accrediting agencies* at the time the credits are earned. 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 accept from two year institutions transfer credit for courses that are 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 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 or 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. Students must confer with his/her college adviser 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, military service education credits can be applied toward a degree.
12. Grades earned in transferred courses are not computed in the student's USF grade point average except for the purposes of admission to limited access programs, the awarding of Honors at Graduation, and class ranking of baccalaureate students.
13. Foreign transcripts will be evaluated by the Office of Admissions and the student's college when sufficient materials are available for a fair and accurate evaluation. If sufficient information is not available the student will be required to request an evaluation from the World Education Service at the cost of 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:
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 Summary

To accommodate the partnership between public community/junior colleges and the Florida state universities, an articulation agreement was approved by the Board of Regents and the State Board of Education effective April 13, 1971.

At the core of any agreement between the community colleges and the State University System designated to establish an effective orderly transfer process for community college students is the mutual acceptance of the nature and purpose of the Associate of Arts degree. This degree, which is the basic transfer degree of Florida community/junior colleges and the primary criterion for admission of transfer students to upper division study in a state university, shall be awarded upon:

1. Completion of a minimum of 60 semester hours of academic work exclusive of occupational courses and basic required physical education courses.
2. Completion of an approved general education program of not fewer than 36 semester hours.
3. Achievement of a grade-point average of not less than 2.0 ("C") in all courses attempted and in all courses taken at the community/junior college awarding the degree, provided that only the final grade received in courses repeated by the student be used in computing this average. The grade of "D" will be accepted for transfer (provided the overall grade average does not drop below the prescribed 2.0 level) and will count towards the baccalaureate in the same way as "D" grades obtained by students enrolled in the lower division of state universities, i.e., credits required for the baccalaureate; however, it is at the discretion of the department or college of the university offering the major as to whether courses with "D" grades in the major may satisfy requirements in the major field.

Once a student has been certified by such an institution as having satisfactorily completed its prescribed general education program, no other public institution of higher learning in Florida to which he or she may be qualified to transfer will require any further general education courses in his or her program.

If, for any reason, a student has not completed an approved general education program in a community/junior college prior to transfer to the State University, the general education requirements of the university must be met.

Academic Advising for Admitted Undergraduate Students

The University 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 advisers to keep abreast of any policy, procedural, or curriculum changes which may affect them. In fact, some colleges require adviser approval of student programs each semester.

To assure continuity, high quality, and commonality in advising (to the extent possible with widely varying programs), the coordinator of advising of each college and Undergraduate Studies, and representatives from the related offices of the Registrar, Admissions, and Community College Relations meet periodically as the University's Council on Academic Advising. This Council is concerned with assuring timely availability of accurate information on University courses, programs, procedures and regulations to prospective, new and continuing students.

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.

Registration for Admitted Degree-Seeking Students

Continuing degree-seeking students early-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 early 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 $25.00 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, must *also* submit proof of immunity of measles. (See Immunization Policy.)

Continuing Education Credit Courses

Through its School of Extended Studies and Learning Technologies, the University of South Florida offers credit courses and programs to serve the in-service and continuing education needs of a geographical area that encompasses Charlotte, Collier, DeSoto, Glades, Hardee, Hendry, Hernando, Highlands, Hillsborough, Lee, Manatee, Pasco, Pinellas, Polk, and Sarasota counties. (See School of Extended Studies and Learning Technologies for further details.)

Enrollment in Continuing Education Courses

Enrollment in a continuing education off-campus credit course is accomplished by mail only. Enrollment forms may be obtained at the Office of the Registrar, the School of Extended Studies and Learning Technologies, 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 or she has met the course prerequisites as published in this catalog.

FINANCIAL INFORMATION

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 status is sought.

The University of South Florida 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 University of South Florida 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) $15.00
2. **Registration and Tuition Fee**
   Students will receive a schedule and bill at the time they register and each time they drop or add during the drop/add period. This bill 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.
   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. Estimated Fee Structure
      Fees are assessed by course level, not student classification.

Campus	*Course Level*	*Resident*	*Non-Resident**
Tampa Campus:			
	0001-4999 Undergraduate	$44.02/hr	$135.99/hr
	5000-Over Graduate	$73.76/hr	$208.71/hr
	Thesis and Dissertation	$73.76/hr	$208.71/hr
Tampa OU and Continuing Ed.:			
	0001-4999 Undergraduate	$40.36/hr	$132.33/hr
	5000-Over Graduate	$70.10/hr	$205.05/hr
	Thesis and Dissertation	$70.10/hr	$205.05/hr
St. Petersburg Campus:			
	0001-4999 Undergraduate	$38.61/hr	$130.58/hr
	5000-Over Graduate	$68.35/hr	$203.30/hr
	Thesis and Dissertation	$68.35/hr	$203.30/hr
Sarasota Campus:			
	0001-4999 Undergraduate	$39.61/hr	$131.38/hr
	5000-Over Graduate	$69.15/hr	$204.10/hr
	Thesis and Dissertation	$69.15/hr	$204.10/hr
Sarasota: OU and Continuing Ed/Summer.:			
	0001-4999 Undergraduate	$38.41/hr	$130.38/hr
	5000-Over Graduate	$68.15/hr	$203.10/hr
	Thesis and Dissertation	$68.15/hr	$203.10/hr
Lakeland Campus:			
	0001-4999 Undergraduate	$37.11/hr	$129.08/hr
	5000-Over Graduate	$66.85/hr	$201.80/hr
	Thesis and Dissertation	$66.85/hr	$201.80/hr
Fort Myers Campus:			
	0001-4999 Undergraduate	$38.11/hr	$130.08/hr
	5000-Over Graduate	$67.85/hr	$202.80/hr
	Thesis and Dissertation	$67.85/hr	$202.80/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) Students who are *not* registered for any courses and apply for graduation must pay for one hour at the level of graduation.
(5) 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.
(6) Registration fee payment should be mailed to:
Division of Finance and Accounting
University of South Florida
ADM 147
4202 Fowler Avenue
Tampa, Florida 33620

(7) I.D. Card Validation Hours Regular Registration See regular registration dates and times in "Schedule of Classes" for appropriate semester. Remainder of Semester Monday through Friday, Cashier's Office, ADM 131, 9:00 a.m. through 3:00 p.m.; Accounts Receivable, ADM 176, 3:00 p.m. through 5:00 p.m.; Information Desk, University Center (unit #4), 5:00 p.m. through 9:00 p.m.

b. Estimated Bachelor of Independent Studies Fees

	Resident	*Non-Resident*
Application Fee	$15.00	$15.00
1st Study Area		
Independent Study	645.45	2,301.00
Seminar	645.45	2,301.00
2nd Study Area		
Independent Study	645.45	2.301.00
Seminar	645.45	2.301.00
3rd Study Area		
Independent Study	645.45	2,301.00
Seminar	645.45	2,301.00
Fourth or Inter-area Study	1,290.90	4,602.00
Total*	$4,858.20	$18,423.00

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

c. Weekend College Fees

Students enrolling in courses through the School of Extended Studies Weekend College normally pay registration costs through a sponsoring organization. They do not pay tuition fees directly to the University.

d. Off-Campus 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 208 Andros Classroom Building) at any time during the course of the semester.

3. **Estimated College of Medicine Registration Fee**

A Florida student enrolled in the M.D. program in the College of Medicine will pay a fee of $5,130.30 per year in installments of $2,565.15 each to be paid in September and February. A non-Florida student enrolled in the M.D. program in the College of Medicine shall pay a fee of $12,364.80 per year in installments of $6,182.40 each to be paid in September and February.

4. **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 $25.00 late registration fee.

5. **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.

6. **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.

7. **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.

8. **Staff/State Employee Waivers**

Career Service employees of any State agency wishing to enroll in tuition-free courses should obtain a State waiver from their various State agencies and complete it prior to registering. After registering during the State employee registration period (only courses registered for during or subsequent to this period can be waived, courses registered for prior to this period will not be waived!), the State waiver and registration form should be brought to the Cashier's Office, ADM 131, during the first week of classes. Payment for thesis, dissertation, and direct individual study courses cannot be waived. All hours in excess of six must be paid for at the regular rate.

9. **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 from the Office of Veteran's Affairs have until a specified date (see "Schedule of Classes") to pay registration fees in full.

10. **Estimated Room Rent For Double Occupancy***

Room rent is paid in accordance with information in the Housing Contract.

Andros Per Semester	$648.00
Argos Per Semester	$611.00
Village Per Semester	$684.00

11. **Estimated Food Service***

The following food service plan options are available to all students.

15 Meal Plan per Semester	$731.71**
20 Meal Plan per Semester	$786.72**

*Subject to rate change

**Includes state sales tax

Refund of Registration Fee Payment Release of Registration Fee Liability

The following refunds, less deductions for unpaid debts to the University, are authorized. A Refund Request form must be completed and presented to the Accounts Receivable Department 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.

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

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

Fee Adjustment Request After Fifth Day of 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. Payments may be mailed to Finance and Accounting, University of South Florida, Tampa, Florida 33620.

Financial Aid

The University of South Florida 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 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 at their convenience. Financial aid personnel are available to provide assistance.

Students apply for most financial aid by submitting the Family Financial Statement (FFS). 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.

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 on 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.

Handicapped

All staff/students with physical disabilities which impede walking may apply to the Parking Services Department of the local campus for a handicapped hangtag. Persons will receive vehicle registration hangtags free of charge if they are wheelchair-bound, legally blind, hold a current State of Florida H.C. Parking Permit, or have military disability of 50% or greater with V.A. certificate or letter. Other disabled registrants will pay the regular fee. Wheelchair-bound registrants are entitled to an exclusively numbered H.C. parking space. Other H.C. registrants shall share spaces marked Handicapped.

Evening Students

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

Special Services

Veterans Administration (VA) Benefits

The University of South Florida is approved for the education of veterans, service members, and certain dependents of veterans 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 8 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," "U/IU," "I" unless removed within a calendar year). *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 slip 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

The University of South Florida 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 the University of South Florida 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 the Vice President for Student Affairs and his staff, are 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 which is conducive to learning and which 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 offer 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, child care, 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. The Student Affairs staff cooperate with the Division of Undergraduate Studies to insure that students receive the necessary amount of academic advising prior to registration. 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, intercollegiate athletics, the Sun Dome, and events of special interest.

The Office of the Vice President for Student Affairs is responsible for notifying all involved parties in the event of the death of a student.

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

All regularly enrolled students are voting members of the Student Government of the University of South Florida. They elect the Student Government officers, student representatives to the S.G. Senate and college councils. Student Government is an agency representing student interests in programs, plans, policies and procedures of the University, and securing student representation to University governance. The Student Government office oversees the Activity and Service Fee Fund, offers free legal referral assistance by a staff of attorneys, provides a computer lab, and aids students with off-campus housing (apartment listings, roommate service, etc.) To receive an off-campus housing listing, mail a self-addressed, stamped envelope to the Student Government office. Other areas, such as academic grievances, minority problems, health and accident insurance, and programming productions, are also managed in the Student Government office.

Grievance Procedure

In order to assure to 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.

Other 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.

Financial Aid

The Office of Financial Aid reports to the Vice President for Student Affairs. For information about services offered to students, refer to the section of this catalog regarding "Financial Information."

Student Health Services

Welcome to the University of South Florida. We at the Student Health Services hope your stay here is happy, productive and healthy. Our staff are fully qualified professionals dedicated to providing quality health care. Good health is critically important to academic success or, as Herophilus put it over 2000 years ago, "When health is absent, wisdom cannot reveal itself, art cannot become manifest, strength cannot fight, wealth becomes useless, and intelligence cannot be applied." Injuries, illnesses and health problems should receive immediate attention so there is as little interruption as possible in your busy schedule.

We are located adjacent to the University Center Building. Our phone number is: 974-2331. Our hours are Monday - Thursday 8 a.m. to 5:30 p.m., Friday 10 a.m. to 5:30 p.m. when classes are in session. Hours may vary during breaks and holiday. Variations will be published. The services offered by Student Health Service to the students are:

Walk-In Clinic	Dermatology Clinic	Referrals
Medical Clinic	Clinical Laboratory	Gynecology Clinic
Allergy 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. Bring your current validated ID card to the Student Health Services office. You will be seen and evaluated by a registered nurse. If necessary, you will be referred to a physician that same day or given an appointment at a later time depending on your individual situation. All records at the Student Health Services are kept strictly confidential.

The Student Health Services 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.*

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

Psychiatric counseling is funded by the Health Services and available at the Counseling Center for Human Development located in SVC 207. Their phone number is: 974-2831.

The cost of most routine medical care is covered by your 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. You may also pick up information on insurance and an application form from the Student Government Office, CTR 156. We strongly recommend that all students be covered by health insurance.

We have tried to provide basic information about USF's Student Health Services. For further information please call us at 974-2331. We'd also like to hear from you if you have any comments or suggestions about our services.

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 (blue Health History Card can be completed by physician or documentation attached) or,

2. Copy of laboratoy 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, 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.

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

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 or her educational objectives. The adviser 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 United States.

Disabled Student Services

The University of South Florida has good 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.

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 Disabled Student Academic Services office counsels disabled students in the academic elements of student life. Special reading services, tutoring and other assistance can be found in this office.

Residence Hall Living

The residence hall program at the University of South Florida 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 United States 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 the University of South Florida 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. Alpha houses both women (First and Third Floor) and men (Second and Fourth Floor) in single occupancy accommodations similar to Gamma and Beta except for the number of residents occupying each living unit. 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. The suites in the Andros complex are designed to accommodate eight residents: two sharing a bedroom, four sharing a study area, and eight 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. 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 ADM 151, 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 3:00 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, 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 University Center seeks to add another dimension to the educational experience by providing an environment for informal association outside the classroom. The University Center 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 University Center to provide meeting space for faculty, alumni and staff, to provide recreational and informational services to the public and to foster a spirit of enthusiasm for the University of South Florida.

The University Center houses a diversity of programs and services. Here, you'll find 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, classified ad placement, Tampa area bus schedules, official USF lost and found, commerce and ride boards, 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 machine, travel service and copy service.

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

Food service areas in the University Center include the Center Dining Club on the first level, with a cafeteria and seven dining areas, and the Dugout Club and 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 Center 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 the Games Area, Craft Shop, Bike Shop, TV room, vending machines, and photo lab. The Games Area has billiard tables, video and pinball games, foosball, table tennis, chess, checkers and card tables. The Craft Shop 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 Craft Shop also maintains the Centre Art Gallery and Photo Lab. 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 new dimension of entertainment facilities 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 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. Additional meeting rooms are located in the Skyway.

Student Organizations

The Office of Student Organizations and Leadership Development on the Second level 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 200 student organizations. Professional advising to fraternities, sororities, minority orgranizations, and leadership development training are coordinated through this office. Traditional USF activities such as Senior Week, Honors Week, Greek Week, Torchlight and Student Organizations Showcase are directed through this office. The Student Organization Advisory Board (SOAB), an all-student committee, is made up of students representing the 200 organizations. The SOAB is a resource to all organizations in regard to their programs, problems and general welfare. The University Center Activities Board (UCAB) is a unique programming organization. Made up entirely of student volunteers, the UCAB 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 200 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 the University of South Florida 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 Letters Student Council, Black Student Union, College of Education Student Council, College of Medicine Student Council, College of Natural Science 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, Social and Behavioral College Council, 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 functioning on the Tampa campus. These organizations provide a variety of programs and experiences in educational, service, recreational and social areas. Membership is open to any student through a program called, "Rush." Rush provides students an opportunity to learn about the Greek system. The governing bodies of the 20 national fraternities and 11 national sororities are the Interfraternity, Panhellenic and Black Panhellenic Councils. The Greek system is supported and advised by professional staff personnel.

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, Chi Phi, Delta Tau Delta, Kappa Alpha Psi, Kappa Sigma, Lambda Chi Alpha, Phi Beta Sigma, Phi Delta Theta, Pi Kappa Alpha, Pi Kappa Phi, Sigma Alpha Epsilon, Sigma Alpha Mu, Sigma Chi, Sigma Nu, Sigma Phi Epsilon, Sigma Tau Gamma, Tau Epsilon Phi, 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 Epsilon Rho, Alpha Phi Sigma, Alpha Pi Mu, Alpha Theta Lambda, Alumni Scholars, Beta Alpha Psi, Beta Gamma Sigman, Beta Phi Mu, 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 Alpha Theta, Phi Kappa Phi, Phi Mu Alpha, Phi Gamma Mu, Pi Mu Epsilon, Pi Sigma Alpha, Psi Chi, Sigma Alpha Iota, Sigma Delta Chi, Sigma Iota Rho, Sigma Theta Tau, Sigma Xi, Tau Beta Pi and Themis Honor Society.

International

International student organizations exist at USF to meet the needs of international students and to increase the awareness of the university and the community about international students. International organizations are: Caribbean Cultural Exchange, Chinese Student Union, Circulo Culturale Italiano, French Club, Friendship Association of Chinese Students and Scholars, German Club, Intercultural Organization, International Studies Student Association, Latin American Student Associa-

tion, Students of India Association, Pakistan Student Association, Spanish Club, 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 profession oriented needs and interests of students. They are: Advertising Club, Air Force ROTC, American College of Health Care Executives, American Institute of Aeronautics and Astronautics, American Institute of Chemical Engineers, American Society of Mechanical Engineers, American Society for Personnel Administration, Angel Flight - AFROTC, Arnold Air Society, Florida Engineering Society, Human Factors Society, Institute of Electrical and Electronics Engineers, Institute of Industrial Engineers, Mathematics Education Club, Minority Graduate & Professional Studies Organization, 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, Forensics Club, Graduate Business Association, Linguistics Club (Lingo), Microbiology Club, Minority Advocates of the Social Sciences, Minority Organization of Students in Education, Philosophy Club 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: Allen Christian Fellowship, Alpha Omega Campus Ministry, Baptist Campus Ministry, B'nai B'rith Hillel Foundation, Catholic Center, Christian Science, Episcopal University Center, the Nagigators 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 Campus Ministry, Fellowship of Christian Students, Friends of Israel Gospel Ministry, Intercollegiate Adventist Fellowship, New Testament Christians, Sold Out Students, Transdenomination Prayer Group 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, Fourth Forest Recycling,Infoquest Services, Open Circle, 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, Bull Spirits, Classics Society, Gameplayers Association, Gay/Lesbian Coalition, Geography Club, Gospel Choir, Model United Nations, Radio and Electronics Club, Readers Theatre Guild, Society for Creative Anachronism, Society for Interdisciplinary Studies, Society for Computer and Engineering Technology, Society of Creation Science, Strategic Studies Group, Student Council for Exceptional Children, Student Dance Production Board, Student Theatre Productions, Students Over Traditional Age, University Peace Alliance, WBUL Radio Station, Women's Studies and Yearbook 20th Century.

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: Aerobics Club, Aikido Club, Barbender's Club, Bicycle Club, Bowling Club, Chito Ryu Karate, Fencing Club, Frisbee Club, Go Club, Karate Club, Royal Kung Fu Club, Sailing Club, Scuba Club, Skydiving Club, Sports Car Club, Sports Officials Association, Tae Kwon Do Karate Club, Wado Kai Karate, Water Ski Club and Windsurfing Club.

University Bookstores

The bookstores are owned and operated by the University of South Florida 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 (MDS 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 USF 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 are 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 USF 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 and Master Cards are 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 24 different sports, with considerable interest in participation by residence hall teams, campus organizations and independent students. The following intramural sports are scheduled:

Semester I	Semester II
Flag Football	Soccer
Golf	Volleyball
Co-ed Softball	Bowling
Racquetball	Swim Meet
Field Goal Kicking	Tennis
Track Meet	3 on 3 basketball
Sports Trivia Bowl	Kickball
Softball	Basketball
Ultimate Frisbee	Team Tiathlon
Intramural 5K Run	Slam Dunk Contest
Basketball 3-Pt. Shootout	Wrestling
Home Run Derby	Golf Long Driving Contest

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--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

The University of South Florida fields 12 intercollegiate sports for men and women, all at the NCAA Division I level. In men's competition, USF has baseball, basketball, soccer, cross country, golf and tennis. On the women's side are basketball, softball, tennis, golf, cross country and volleyball.

The school became a charter member of the Sun Belt Conference in 1976 and has consistently been a dominant force in the league. Every year, South Florida is in contention for the Commissioner's 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 and soccer 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, Tuesday 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 Reading-Study Skills Service provides diagnosis and evaluation of reading skills and study habits. Two approaches are offered: (1) Credit classroom courses that include intensive instruction and practice in word attack, vocabulary, and comprehension skills, and, (2) an Independent Study credit course that places emphasis on the development of skills. A Reading-Study Skills Laboratory is available for all students enrolled in either the classroom or Independent Study Sections. Regular registration procedures will be followed for either of the above courses. Visual screening is also available.

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 in making 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 presenting themselves at the Counseling Center and requesting assistance.

Veterans Services

Veterans Services are provided at each campus of the University of South Florida. 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 the Veterans Services office. Applications for veterans benefits are completed in the Veterans Services Office, processed through the Certifications Section of the University Registrar's Office, 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 course work 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, military service school credit and discharge review.

The University of South Florida 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, PROCEDURES, PROGRAMS, AND SERVICES

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.

The University of South Florida and all colleges, departments, and programs therein establish certain academic requirements that must be met before a degree is granted. These requirements concern such things as curricula and courses, majors and minors, and academic residence. Advisers, 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.

General Academic Regulations and Information

Semester System

The University of South Florida 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.

Beginning with Fall, 1981, the University of South Florida, along with the other institutions in the State University System of Florida, converted from a quarter system to the semester system. During the history of the University of South Florida, the institution operated under semester and trimester credit systems from the institution's inception in 1960 until Fall, 1967, after which it was under the quarter system until the Fall of 1981.

Catalog

An undergraduate student is entitled to one USF Undergraduate Catalog per issue. Students wanting additional copies must purchase them from the University Bookstore.

Prospective undergraduate students may obtain general University information concerning admissions, fees, and degree programs by requesting the Undergraduate viewbook.

Academic Load

The maximum load of an undergraduate student is 18 hours 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	6 hours or more each session
For: Financial aid	Students must enroll for 12 hours (undergraduate) in any combination of Sessions "A," "B" and "C."
Session "C" (10 weeks)	
For: Academic purposes	9 hours or more
For: Financial aid	Students must enroll for 12 hours (undergraduate) in any combination of Sessions "A," "B" and "C"

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

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

Availability of Courses

The University 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

The University of South Florida will accept credits only from those institutions accredited by one of the six regionally accrediting agencies. However, USF reserves the right to deny credit for specific courses.

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 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/cross enrollment form should be used for this purpose.

Course Attendance at First Class Meeting

This policy has been put into effect so that the University of South Florida may effectively utilize classroom space and to ensure 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 Cred 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 Class Schedule 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 those periods.

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 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 Class Schedule 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 for 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 names and addresses to whom the transcript is to be sent. If grades for the current term are needed, clearly indicate that the transcript request is to be held for grades. No charge is assessed for transcripts.

College Level Academic Skills Program

The College Level Academic Skills Test (CLAST) is a part of Florida's system of educational accountability. CLAST is a state-mandated achievement test which 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 in Arts or a baccalaureate degree from any Florida public institution.

The only exception to this is: students who have already earned a baccalaureate degree from a regionally-accredited institution. These students 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 in Arts degree and for the Bachelor's degree from August 1, 1991 as follows: Reading, 295; English Language Skills, 295; Mathematics, 295; and Essay, 5.

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. In all cases registration of students for CLAST must be made at the institution which needs the scores. Students at USF are required to take the CLAST by the time they complete 55 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 55 hours from previous institutions.

The Office of Evaluation and Testing can provide information on how and when to apply to take the CLAST along with a list of CLAST skills. Academic advisers have details on where the communication and computation skills are taught in the curriculum.

Courses to Satisfy Rule 6A-10.30 ("Gordon Rule")

Prior to receiving an Associate in 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 course work at the level of college algebra or above. For the purpose of this rule, applied logic, statistics, and other such computation course work, 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, the University of South Florida 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 Number and Title		Semester Hours
ARTS & SCIENCES			
(African and Afro-American Studies			
	AFA 2001	Introduction to Afro-American Studies	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	Folk and Tribal Art	3
	ANT 4231	Folklore	3
	ANT 4241	Magic and Religion	3
	ANT 4326	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 4100	Greek Civilization	4
	CLA 4120	Roman Civilization	4
	CLT 3101	Greek Literature in Translation	4
	CLT 3102	Roman Literature in Translation	4
	CLT 3370	Classical Mythology	4
(English)			
	CRW 2100	Narration and Description	3
	CRW 3110	Imaginative Writing: Fiction	3
	CRW 3111	Form and Technique of Fiction	3
	CRW 3112	Fiction I	3
	CRW 3121	Fiction II (8/85)	3
	ENC 1101	Freshman English	3
	ENC 1102	Freshman English	3
(Appropriate AP credit applicable)			
	ENC 3210	Basic 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
	WOH 3270	Revolutions in the Modern World	4
(Humanities)			
	HUM 4437	Renaissance Arts & Letters	4
	HUM 4438	Renaissance Arts & Letters	4
	HUM 4440	Enlightenment	4
(Languages)			
	LIN 3801	Language and Meaning	3
	RUT 3110	Russian Classics in Translation	3
	RUT 3111	20th Century Russian Literature in Translation	3
	RUS 3500	Russian Civilization	3
(Philosophy)			
	PHH 3000	Introduction to Philosophical Traditions	3
	PHH 4600	Contemporary Philosophy	3
	PHH 4700	American Philosophy	3
	PHI 3011	Introduction to Philosophical Problems	3
	PHI 3700	Philosophy of Religion	3
	PHI 4320	Philosophy of Mind	3
	PHI 4360	Theory of Knowledge	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	4
	REL 3170	Religion, Ethics & Society	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	4
EDUCATION			
(Psychological & Social Foundations)			
	IDS 3115	Values and Choice	3
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 3100	Introduction to Dance	2
	DAN 4120	Survey History of Dance	3
(Music)			
	MUL 4111	Introduction to Music Literature	3
(Theatre)			
	THE 3080C	Modern Theatre Practice	4

All the above courses will require 6,000 written words per course.

GEB 3211 Business Communication (3 semester hours) may also be counted toward fulfilling the writing requirement but will not count toward Area II of General Distribution Requirements.

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
STA	3122	Social Sciences Statistics	3
GEB	2111	Business and Economics Statistics	3
PHI	2100	Logic	3
STA	3023	Introduction to Statistics	4
CGS	3060	Introduction to Computers and Programming in Basic	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 or 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 towards 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 or her best interest to re-evaluate his/her educational goals with an academic adviser 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 or she has gained adequate maturity and motivation, he/she may petition the Academic Regulations Committee for readmission. 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 change 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.

Note: At the time of publication, the addition of pluses and minuese to grades A,B,C and D, with appropriate adjustments to quality point values, was under consideration for implementation in Fall, 1991.

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 the University of South Florida. 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 M, MU, N, W, S, U, I, IU, 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 course work 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 grade point average 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," which ever 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 grade point average. 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 grade point average, 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 S/U basis.
4. 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 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 grade point average.

Grade Forgiveness Policy

The University of South Florida 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 which 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 grade-point average. 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 a student has been awarded a bachelor's degree from USF, he 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 the University of South Florida.

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) (see notes below) after any term, he/she will be placed on Academic Probation (AP). If the cumulative 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 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 is academically dismissed from the University of South Florida or falls below a 2.00 GPA and subsequently achieves an AA or an articulated AS degree from a Florida public Community College (or a Florida public four-year institution or from Florida College in Temple Terrace), that student when (re)admitted to the University will be credited with a maximum of 60 semester hours and have his/her academic record cleared in that the USF GPA will begin again. The temporary academic dismissal (TAD) category does not apply to students salvaging their records. Only with the endorsement of the Dean of the College of the student's major and approval by the Academic Regulations Committee, may the student receive credit for hours beyond the 60 which were earned previously at USF or another four-year institution.

If a student is academically dismissed or falls below a 2.0 GPA from the University of South Florida 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 the University of South Florida and has a 2.0 or better GPA at USF and subsequently receives an AA from a Community College, the posting of the AA shall not remove the previous grade-point average 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 the University. 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 cancelled.

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 grade point average.

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

All undergraduate students must present a score (passing score after August, 1984) on the College Level Academic Skills Test (CLAST) and fulfill the writing and computation course requirements of 6A-10.30 prior to graduation from the University.

Admission to a College

All new lower level students must initially be advised 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

Change of Undergraduate Major: 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. The University of South Florida 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 the University of South Florida 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.

Six 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 University of South Florida grade point average of 3.5 or above for all completed hours; a minimum of 24 University of South Florida graded (A-F) hours; and no incomplete (I) grades.

Honors Program

Superior 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 superior 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 nine Honors courses that include: the philosophical inquiry into the nature of human knowledge, ethics, interdiscliplinary studies in the sciences, social sciences, arts and humanities, two student-designed Honors Seminars, and a Senior Thesis or Project (see Course Descriptions). University Honors students complete six semester hours of English, six semester hours of Mathematics, and three to eight hours of foreign language. Honors students may satisfy the English and Math 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 work-load 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 GPAs and 1200 SAT or 28 ACT scores.

Tuition scholarships are available for outstanding University Honors students.

Departmental Honors Programs are available in selected departments that wish to offer Honors-level work for superior students majoring in their disciplines. Requirements vary according to department, but all require the completion of a Thesis 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/or Departmental Honors shall be identified as Honors Graduates at Commencement as well as on their diplomas and transcripts.

Premedical Honors

The USF College of Medicine is particularly interested in admitting students who have participated in the University Honors Program. Students may follow a special program which allows for completion of a B.A. degree and an M.D. degree in seven years or they may plan on an eight year program, obtaining a B.A. or B.S. degree in four years and an M.D. degree in four years.

Students in the seven year program complete all medical school admission requirements in the first two years and take the Medical College Admission Test in the spring of the second year. In the second semester of the junior year, qualified students enroll in the Biochemistry course at the College of Medicine while completing additional undergraduate courses. During the fourth year, students are enrolled full time in the College of Medicine and, upon completion of that year, receive a B.A. degree in Interdisciplinary Natural Sciences. Students are then accepted into the second year of study in the college of medicine.

Students in the eight year program pursue a degree in the area of their interest. Eight year students complete all medical school admission requirements in the first three years and take the Medical College Admission Test in the fall or spring of the junior year. Application to medical school is made during the senior year.

University Honors students are provided special opportunities to obtain research and/or clinical experience with College of Medicine faculty.

Interested students should consult with the Director of University Honors.

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 will recognize this academic honor. Students who are eligible should contact their College Advising Office for information. Although Undergraduate Studies is a non-academic unit, students with this classification who meet the above criteria will be recognized in a similar manner.

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 Procedure

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 college (except the College of Medicine, which has established a separate procedure) 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 the University of South Florida are awarded degrees in recognition of successful completion of course work in their chosen fields of study. Each individual is expected to earn his or 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, for a Latin word meaning 'kidnapping,' ranges from inept paraphrasing to outright theft." [1][Direct quotation] [1]Harry Shaw, *Concise Dictionary of Literary Terms* (McGraw-Hill, 1972), pp. 209-210.
   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." [1][Direct quotation with an introductory statement citing the source.][1](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." [1][Paraphrasing] [1]*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 or 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 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 3100); 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 3100; Social Science Statistics, STA 3122. [See Rule 6A-10.30]

Area IV-Natural Sciences

Any course offered by: 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: African and Afro-American Studies; Anthropology (excluding ANT 3511); Criminology; Economics (excluding GEB 2111, GEB 3121); Geography; Gerontology (including HUS); History; 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 or 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.

**Major Programs

a. Specialization: Those courses required to give the student academic concentration and baccalaureate identification such as Mathematics, Accounting, Psychology, etc.
b. 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.
c. 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.

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 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 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 advisers or the Office of Evaluation and Testing.

Graduation Requirements
Baccalaureate Degree
University Requirements

University requirements for graduation consist of the following: earn a minimum of 120 semester hours with at least a "C" average (2.0 GPA) on all courses attempted at USF; 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; and complete program requirements as determined by the college. The requirements must be met by every student upon whom a degree is conferred.

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 articulation programs based on the A.S.

degree. For information regarding such programs consult the Office of Community College Relations.

All students entering the University of South Florida 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.)

In addition to specific requirements of their major and College, candidates for Graduation must also satisfy the University General Distribution Requirements and be recommended for graduation by the dean of the college granting the degree.

Summer Enrollment Requirement

As stated above, effective September 1, 1976, all students entering the University of South Florida 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 Registrar's Office. After submission of the form to the Registrar's Office, 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.

Foreign Language Graduation Requirement

All students applying for a bachelor of arts degree from the University of South Florida 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

Other Modern Foreign Languages

Approval needed by the Director of the Division of Language.

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 Language. Students taking the examination in Ancient or Modern Greek or in Latin should apply to the Chairperson 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 Exam

All students with two or more years of study in a foreign language in high school or with any other kind of contact with a foreign language may not enroll for credit in courses in that language without first taking a placement examination approved by the Division of Language. 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 a "U." Under no circumstances will a student who places above the first year level be allowed to register for credit for a first year course in that specific language. Students to whom this regulation applies should inquire of the Division of Language for the placement examination.

Academic Residence

Candidates must be recommended for graduation by the dean of the college granting their degree and must have completed at least 30 hours of the last 60 hours of their undergraduate credit in on-campus 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 advisers) while on their training periods, and students taking correspondence work from the University of Florida.

Major Fields of Study

The University of South Florida offers curricula leading to the baccalaureate degree in the following fields. The degree is indicated in parentheses after each college, the major code after each major.

College of Arts and Sciences:

African and Afro-American Studies (AFA) (B.A.)
American Studies (AMS) (B.A.)
Anthropology (ANT) (B.A.)
Biology (BIO) (B.S.)
Biology (Biotechnology) (BTK) (B.A.)
Botany (Bot) (B.S.)
Botany (Environmental Science) (BES) (B.A.)
Chemistry (CHM) (B.A.)
Chemistry (CHS) (B.S.)
Chemistry (5-Year Program) (CBM) (B.A.)
Classics (Interdisciplinary Classics) (ICL) (B.A.)
Classics (Latin or Latin-Greek) (CLS) (B.A.)
Classics and Foreign Language (CLF) (B.A.)
Clinical Chemistry (CHC) (B.S.)
Communication (SPE) (B.A.)
Communication - English (ENS) (B.A.)
Communication - Theatre (STA) (B.A.)
Criminology (CCJ) (B.A.)
Economics (ECN) (B.A.)
English (ENG) (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)
- Speech/Language/Hearing Science (ISH)
- Urban Studies (ISU)
- Interpretor Training (ISI)

Interdisciplinary Studies (BIS) (B.I.S.)
International Studies (INT) (B.A.)
Italian (ITA) (B.A.)
Latin (LAT) (B.A.)
Mass Communications (COM) (B.A.)
- Advertising (ADV)
- Broadcasting News (NWS)
- Broadcasting - Program & Production (PGM)
- Film (FIL)
- Journalism - Magazine (MAG)

- Journalism - News Editorial (JOU)
- Public Relations (PUR)
- Visual Communications (VIC)

Mathematics (MTH) (B.A.)
Medical Technology (MET) (B.S.)
Microbiology (MIC) (B.S.)
Natural Sciences Interdisciplinary (B.A.)
- Biology (INB)
- Chemistry (INC)
- Geology (ING)
- Mathematics (INM)
- Physics (INP)

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)
Humanities Education (HUE)
Industrial-Technical Education (EVT)
Mass Communications-English Education (MCE)
Mathematics Education (MAE)
Music Education (MUE)
Physical Education (PET)
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.)
Engineering Technology (ETK) (B.E.T.)
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) (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 University of South Florida courses.
2. A student desiring a minor must have a major in a different program option.
3. University of South Florida course work for a minor must have a grade point average of at least 2.0.
4. Only an undergraduate degree-seeking student at the University of South Florida 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 course work at the University and applying for the certification.

Minor Fields of Study

The University of South Florida offers curricula leading to an academic minor in the following fields:

College of Arts and Sciences:
African and Afro-American 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 the University of South Florida, 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 the University of South Florida, "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.

University 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 adviser 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 the University of South Florida may receive two baccalaureate degrees provided he/she meets the University's graduation requirements; a minimum of 30 semester hours must be earned in on-campus undergraduate courses to be applied to the second degree. (These hours are in addition to the minimum of 120 semester hours earned which apply toward the first 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 on-campus 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 adviser in the five-year program and an adviser in the baccalaureate-level program and with the approval of the College Dean(s) offering the programs, 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 in 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 in arts certificate 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. certificate). The college retains one copy, and the student must submit the remaining copies to the Office of the Registrar prior to the graduation application deadline. Inquiries concerning approval or denial of graduation should be made to the appropriate college or to the Center for Academic Advising in 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.

Students who are not registered for any courses and apply for graduation or certification of a minor or another major must pay for one hour of upper-level credit if they are undergraduate students or one hour of graduate credit if they are graduate students.

Honors at Graduation

A baccalaureate candidate must first have an overall grade-point average 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 to be eligible for honors must have a grade point average 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 grade point average for honors.

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 in Arts

To receive the Associate in Arts degree, a student must complete 60 semester hours of university credit; at least 20 of the last 30 semester hours must be completed in residence at the University of South Florida; the minimum grade-point average must be 2.0 based on work attempted at USF; and the General Distribution Requirements of the University must be satisfied. Physical Education and Military Science credits do not count toward the A.A. degree. In addition, the student must present a score (passing score after August, 1984) on the College Level Academic Skills Test (CLAST) and fulfill the writing and computation course requirements of 6A-10.30 prior to receiving an A.A. degree.

Application for the Associate in Arts degree is obtained from the Undergraduate Studies Center for Academic Advising prior to the application deadline. The Associate in Arts degree must be awarded prior to the term that the student becomes eligible for the baccalaureate degree. Detailed instructions to determine the student eligibility to receive the A.A. degree are included with the application.

Students who have completed their A.A. requirements in a prior term and apply for the degree while not enrolled must pay the appropriate fee for one upper-level credit hour. The fee is payable at the time of application for an A.A. degree.

The awarding of the Associate in Arts degree does not alter the calculation of the grade-point average. Certification for the A.A. in no way affects what the individual colleges require for the completion of the major for a bachelor's degree.

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 6C4-2.021, 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 Par. 228.093, Florida Statutes.

Copies of the University's student records policy, USF Rule 6C4-2.021, may be obtained from:

University Registrar
SVC 1036
4202 Fowler Avenue
Tampa, Florida 33620

or

USF Agency Clerk
Office of the General Counsel
ADM 254
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 the University of South Florida (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 Records & Registration, in writing (on forms available for that purpose), if they wish Directory information to be withheld. Such requests will be effective until written notice to the contrary is received by the Office of Records & Registration.

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.

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 adviser. The grade point average will not transfer to USF. See your USF college adviser for detailed registration instructions and course approval.

Students attending a Florida public community college may cross enroll at USF. Please contact your community college adviser for additional information 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)

The University grants credit for 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. In order to receive credit for the *General Examinations* of CLEP, students must take (or retake) the examinations not later than nine weeks after the first enrollment in college level courses. CLEP Subject Examinations, with the exception of the College Composition and Freshman English Subject Examinations, are not affected by this policy. Exceptions to this rule should be petitioned to the Academic Regulations Committee.
2. 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	*Courses*
English Composition with Essay	ENC 1101 and ENC 1102
Mathematics	MAC 2102 and MGF 2202

3. 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.
4. 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.
5. 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.
6. 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.
7. CLEP General Examination in mathematics or the above mentioned subject examinations 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, Undergraduate Studies.

Advanced Placement Credit Program

The University of South Florida 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.

Marine Officer Program

Qualified students may apply for an officer program leading to a commission as a Second Lieutenant in the United States Marine Corps. Commissions are offered in both ground and aviation components. The Platoon Leaders Course (PLC) is offered to freshmen, sophomores and juniors who attend precommissioning training during the summer. Financial Assistance and Flight Indoctrination Programs are available. Qualified seniors attend 12 weeks of training in the Officer Candidate Course (OCC) after graduation. For details, contact the placement office or the Marine Officer Selection Officer when he is on campus.

College Reach-Out Program

College Reach-Out is an academic program designed for low-income and educationally disadvantaged minority pre-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 in English, mathematics, science, and reading.

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 and be presently enrolled in the 9th or 10th grades.
3. Students must have a 2.0 grade average in English, mathematics, reading, and science.
4. Students must attend schools in Hillsborough County.

Applications should be forwarded to the College Reach-Out Program, FAO 159, University of South Florida.

Enrollment in Evening Courses

Evening courses at the University of South Florida 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 of Florida Correspondence Courses

The State University System of Florida 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 Continuing Education Office, writing to the Department of Independent Study by Correspondence (1223 NW 22nd Avenue, Gainesville, FL 32609), or calling toll-free 1-800-255-5927.

The University of South Florida 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 grade point average.

Non-Degree-Seeking Student Enrollment

Individuals not desirous of earning a degree but who would like to enroll in classes may register as a non-degree-seeking student. For detailed information, refer to Non-Degree-Seeking Students under Admissions Section in this catalog.

Non-Degree-Seeking Student Dual Enrollment

Dual enrollment in USF classes is open to academically qualified students currently enrolled in high school. For detailed information, refer to Admissions Section as above.

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. Grade point average (GPA) must be 2.0 ("C") or above in basic pre-college courses.
5. Attend weekly scheduled tutorial sessions.
6. Attend six-weeks summer residential component on the USF Tampa Campus.

Applications should be forwarded to Director, Project Upward Bound, University of South Florida.

Undergraduate Student Exchange (USE)

United States and International

The University of South Florida maintains cooperating programs for the mutual exchange of undergraduate students with various universities in both the United States (national exchange) and the United Kingdom and Canada (international exchange). These exchange services are provided through the Off-Campus Term (OCT) Program only to universities with which cooperating contractual agreements are in force. An updated listing of all such exCHANGE OPTIONS is available from the OCT program.

These contractual agreements provide a cost savings of over 60% on registration and tuition charges normally applicable to transient students. Students on financial aid continue to receive it from USF while on exchange in most instances of exchange in the U.S. and all instances of exchange to a foreign university. In the few instances of U.S. universities where contractual agreements provide that registration fees are paid to the host university, that university also awards the financial aid to eligible students, not USF. There is an application charge of $50.00 for U.S. exchange and $100.00 or $200.00 for international exchange which is refunded only if we fail to place the applicants meeting the eligibility requirements noted below.

In the *National Exchange Program*, registration/tuition fees are paid either to USF (home university) at the applicable rate (resident or non-resident rate) or to the host university at the in-state rate. The payment system in use (home or host) with other universities is set by contractual agreement and varies among the cooperating universities. In any case, miscellaneous fees (such as activity, athletic, health, etc.) are paid to the host university, as well as board and room if the student opts for living on campus. The duration of exchange in the United States can be for one or two semesters, in most instances, as determined by the student.

The *International Exchange Programs* in the United Kingdom and Canada have a basic charge which covers the registration/tuition at the host university. In some U.K. programs, board (20-meal plan) and room must also be paid to USF, while in others board and room is paid to the U.K. host university. In some cases, decisions about charges and what is covered is based on cooperating contractual agreements. Deviations cannot be permitted because of these agreements. Duration of the exchange is a full year (required) in some instances while in others one semester of exchange is permitted, according to the wishes of the student. Again, the cooperative contractual agreement determines this.

Eligibility

A 2.5 cumulative GPA is required for all programs and exchange is generally favored during the sophomore and junior years. In any case, students must return to USF for at least one semester prior to graduation if they intend to graduate from USF. Accordingly, seniors are eligible if they can meet this requirement.

In all cases of exchange (national or international), the following apply: (1) courses and grades are accepted and entered into the USF record (transcript), and (2) grades earned on exchange are merged into the USF GPA.

The application deadline for exchanges beginning in the fall term is March 1 and the spring (where possible), September 15. However, the number of exCHANGE OPTIONS are 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 OCT program maintains a library of materials about the universities with cooperating agreements with USF. Interested students should listen to a taped orientation explaining about these exCHANGE OPTIONS (and how to apply) at any time during normal working hours of the OCT program.

University of Maine Exchange Program

The College of Education operates a student exchange program with the University of Maine, Farmington. This program provides opportunities for sophomores, juniors and seniors to exchange residence at both campuses. The student exchange provides a waiver of out-of-state tuition. University credit earned is applicable towards graduation. Stu-

dents desiring further information should contact the coordinator of student activities in the College of Education.

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 State University System 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 State University System are listed below:

Administered by the University of South Florida under the auspices of the International Affairs Center and the Travel-Study Division of PACE:

*One, two, or three-month study in Paris, 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 langauge 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, the University of South Florida offers a variety of study-travel programs through PACE (Program for Adult Credit Education). These are coordinated by the study-travel section of the Division of Special Programs.

* 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.

* A two or four-week multidisciplinary summer program at the University of Bristol (England).

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 State University System follows.

*Administered by the University of Florida: 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 do so through the Off-Campus Term. (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 advisers 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 in SOC 320, at the Travel-Study Office of PACE in LLL 012 or in CPR 292.

Institute on Black Life

The University of South Florida'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.

Research

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.

Development

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.

University/Community Service

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.

Florida College Exchange Program

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

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

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

Academic Services and Support

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, master the techniques of using it, and achieve a familiarity with books which will carry over into later life.

The seven floor Tampa Campus Library building was completed in March, 1975. Designed to facilitate study, research, and reading, the library features open stacks with adjoining study areas, many individual carrels and small group study rooms. The library contains a collection of more than 750,000 volumes, 5,000 periodicals and 1.3 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. LUIS (Library User Information Service) the online catalog, may be searched by author, title and subject to identify the library's holdings. LUIS also contains records for the volumes housed in the regional campus libraries, the Health Sciences Center Library, the Florida Mental Health Institute Library and the University Media Center. Terminals are located throughout the building.

The Reference collection is located on the first floor, with service provided at the Reference desk. In addition to assisting students and faculty in using the reference sources in the library, Reference librarians offer computer searches of online databases to students and faculty on a cost recovery basis. To assist students in learning about the resources of the library, the Reference librarians provide individual assistance to students in search strategy and bibliographic form.

The Periodicals collection is on the second floor. In additional to more than 5,000 periodicals, the library subscribes to newspapers from Florida and major cities in the United States and from many foreign countries. A large collection of materials are available in microformat, also located on the second floor. This material provides access to many important sources otherwise inaccessible. Assistance is provided in these two areas of research.

The Library serves as a selective depository for U.S. and Florida Government publications. 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. Library employees are available to assist in using these materials. Topical displays of documents are featured frequently in the department.

The fourth floor Special Collections Department houses the library's rare books and the University Archives. 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 service desk. This area is open limited hours.

The Circulation Department is located on the first floor, circulation books shelved on the third through fifth floors. 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 Circulation desk.

The Reserve Department, containing books and articles "reserved" at faculty request for the use of a particular class, is on the basement level. Adjoining the Reserve desk is the Reserve Room, which serves as one of the Library's quiet study areas.

Tampa Campus Library employees are eager to assist all members of the university in their information needs.

Office of Sponsored Research

Research is an essential aspect of the educational programs of the University of South Florida. 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 **Office 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 1960, the rate of growth in external funding has been phenomenal. During the past year (1989-90) USF faculty has received in excess of $53 million from external sources to pursue research and other sponsored fund activities. 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 Technology Development & Transfer 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 renown 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.

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 and 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 and Video Distribution Office located on the Tampa campus. Reference and research services for films not in the USF collection are also provided.

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 from 10-12, 2-5:45, and Thursday and Friday 9-1:00. 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 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.

Office of Teleconferences

The Office of Teleconferences uses one-way video and two-way audio to receive live, satellite-transmitted, interactive programs, conferences and discussions from anywhere in the world. As such, 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. The University'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.

University Media Center and Lab

The University **Media Center (UMC)** is a resource center for curriculum support media and instructional materials. Adult-level and K-12 audiotapes, records, kits, transparencies, slides, and other study and research presentation aids are available for loan with a University validated ID card. A production room provides graphics and photography facilities, duplication equipment, typewriters, and a laminator for use when you present your ID card. 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. O.U. and IVS video tapes are available through scheduling. A validated University ID card is necessary for use of the facility.

Open University (O.U.)

The Open University 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, the Open University 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. Each program is broadcast twice, at times convenient for students.

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

THERE IS NO FIRST CLASS ATTENDANCE POLICY FOR MOST OPEN UNIVERSITY COURSES UNLESS INDICATED. COURSES SUCH AS SPANISH I & II HAVE FIRST-DAY MANDATORY ATTENDANCE. This means that, while you are not responsible for attending a "first class" for most Open University courses (other than those scheduled and listed on your syllabus), you will NOT BE AUTOMATICALLY DROPPED from an Open University 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 Registrar's Office.

All Open University 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 Open University 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), Open University will be happy to return papers or give grades to you personally.

University Computing Services (UCS)

The University of South Florida 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 State University System and provides administrative, instructional, and research computing support for the University and numerous other agencies. Computer usage is charged for at published rates on a "pay for services rendered" basis.

University Computing Services is the focal point for providing computing support services to the USF customer community. The professional staff includes consultants who assist students, staff and faculty users with computing problems. In the administrative support areas, services are provided through project teams composed of systems coordinators, systems analysts and programmers. Additional support consists of data entry, production control, computer operations, communications, workstation and network services, and systems programming. Computing projects are established through the UCS Financial Services group.

Central site computing equipment located in the Student Services Building on the Tampa campus includes an IBM 3090-300E mainframe with a vector facility supporting tape and disk storage subsystems and laser and impact printers, and plotters. Remote batch job entry and online terminals operate at various locations on campus. Remote access units and terminals are also 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.

Florida Mental Health Institute

The Florida Mental Health Institute (FMHI) is a multidisciplinary training, research, and service facility at the USF Tampa campus. FMHI's mission is to improve mental health services in the State of Florida. FMHI offers training programs, clinical experience, and education opportunities to professionals in mental health and related areas, undergraduate and graduate students, and the general public. FMHI also provides training and consultation throughout the state.

The Institute's programs are conducted by five departments: Aging and Mental Health, Child and Family Studies, Law and Mental Health, Community Mental Health, and Epidemiology and Policy Analysis.

Direct service programs serve as sites for clinical demonstration and research. They are designed as models for state and community agencies. FMHI provides residential treatment for individuals who have severe mental and behavioral difficulties, as well as day treatment and community adjustment services. In cooperation with the Hillsborough County Public Schools, day treatment services are provided to severely emotionally disabled youngsters attending the Colleen Lunsford Bevis School at the Institute.

The Institute's training programs emphasize practical clinical techniques. Similarly, FMHI research focuses on finding the most effective, least costly, and highest quality means of delivering mental health services.

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. Placements are also available with FMHI's computer center, library audio-visual unit, and

public information office. FMHI faculty teach undergraduate and graduate courses in cooperation with other USF departments. The Institute collaborates with other State University System units.

FMHI's library is accessible to students, faculty, mental health professionals, and the public. The Institute also provides continuing education programs and technical publications.

The institute is located in a complex of buildings at the northwest corner of the USF Tampa campus.

College of Public Health

Public Health Education

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). 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.

In preparation for graduate studies, it is recommended that applicants show evidence of the successful completion of the following undergraduate coursework: personal health/health sciences, basic first aid, college mathematics through algebra, speech communication, technical or expository writing, general chemistry with lab, introductory biological science with lab, advanced biological science, introductory psychology, general anthropology, medical anthropology, introductory sociology, educational theory and method, and educational psychology.

School of Extended Studies

Division of Special Programs

The Division of Special Programs is an academic division of the School of Extended Studies. It is comprised of three main programs: PACE (Programs for Adult Credit Education), Travel/Study and MERIT (Multilingual Educational Resources, Information and Training) Center.

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 ones 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.

PACE classes are scheduled in a variety of different ways to accomodate 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's 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, 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 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.

Students enrolled in PACE courses normally pay registration costs through a sponsored institute mechanism. Patterned after and developed through the cooperation of the national consortium To Educate the People headquartered at Wayne State University, PACE also receives significant support from the United Labor Agency of Florida AFL-CIO, especially in the development of class sites.

The Division of Special Programs coordinates the vast majority of the University's overseas study programs through the Travel/Study Program. 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 more than 17 other overseas locations through cooperative programs. Residential programs in the Summer of less than a full semester are conducted by USF in Cambridge and Bristol, England; Perugia, Italy; Madrid, Spain; Berlin, Germany; Moscow, Russia; and Edinburgh, Scotland.

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, and the Soviet Union.

All residental 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.

The MERIT Center is a cooperative effort of the Division of Language and the Division of Special Programs to meet the needs of public school boards and their employees for training in working with Limited English Proficient students. A series of graduate credit courses in teaching English as a Second Language is conducted by MERIT through contracts with various local school boards.

The Division 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 the these programs, contact the Division of Special Programs, University of South Florida, 4202 E. Fowler Ave., Tampa, Florida 33620-8700.

Division of Association Management and Continuing Education

The school, through its Division of Association Management and Continuing Education, assists non-profit professional and trade associations in the operation and management of their organizations. It can

provide membership, conference, educational, and other services which an association without full-time permanent staff needs.

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 noncredit and include special interest, career skills, professional development, test skills, and youth-teen programs. A variety of noncredit 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 Extended Studies 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 the University of South Florida 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.

Mature Student Counseling

Recognizing that education is a lifelong process, the University of South Florida 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, University of South Florida, Tampa, Florida.

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 by updating and furthering their knowledge of advancements in their respective fields. 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, University of South Florida, Tampa, Florida 33620.

Continuing Education Credit Courses

Through its School of Extended Studies, the University of South Florida offers credit courses and programs to serve the in-service and continuing education needs of 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). Refer to enrollment procedures for off-campus courses.

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. In addition, the State University System Extension Library makes available for each continuing education course the latest in reference materials.

The academic calendar for courses scheduled off-campus is essentially the same as for the University's on-campus credit program. Classes are generally scheduled once a week.

Although some continuing education credit courses are generated by the University itself, most originate through requests that are initiated by individuals or interested groups. Requests for continuing education courses in the field of education should be submitted to county extension coordinators designated by the county superintendent of schools. Requests for continuing education courses in all other areas should be transmitted by individuals, groups, companies, agencies, etc., directly to the School of Extended Studies, University of South Florida, 4202 E. Fowler Avenue, LLL 012, Tampa, Florida 33620-8700.

Undergraduate Studies

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

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 degrees.

Disabled Student Academic Services

The Office of Disabled Student Academic Services 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.

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 the University of South Florida 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 Summer program are offered a transitional phase from high school to college. The second tier of PEP is the Fall term black Freshman program that 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 the University of South Florida to complete their education. Assigned to six 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, extended classes, and test preparation workshops 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 Department of Aerospace Studies provides precommissioning education for qualified male and female students who desire to serve as commissioned officers in the Air Force. The Department offers both a two-year and a four-year commissioning program, each with its own special advantages. The two-year program, established by Congress in 1964, allows junior college transfer students and other students with two academic years remaining (either in undergraduate or graduate status) and who have met required qualifications to obtain an Air Force commission while completing their studies. The four-year program provides on-campus study during the freshman through senior years. Both programs provide an opportunity to compete for full academic scholarships. The Aerospace Studies curriculum is divided into two phases: 1) the General Military Course (GMC) and 2) the Professional Officer Course (POC). Students are invited to write or visit the Department of Aerospace Studies to obtain additional information.

General Military Course

This program of instruction is open to any full-time student and consists of the first and second year courses for students in the four-year AFROTC program. These courses of one (1) classroom hour plus one (1) laboratory hour per week, per semester deal with the Air Force in the contemporary world and the development of air power. They strengthen interest in becoming a professional Air Force officer, develop knowledge of world military forces, and enable the student to understand how the United States Air Force supports national objectives and policies. Students on scholarship must successfully complete a course in English composition during these two years. Enrollment in the GMC is open to all USF, University of Tampa (UT), St. Leo College, Florida Southern College, Clearwater Christian College, St. Petersburg Junior College and community college students. The GMC is comprised of the following courses:

AFR 1101 and AFR 2001	AFR 2130 and AFR 2001
AFR 1120 and AFR 2001	AFR 2140 and AFR 2001

Professional Officer Course

Aerospace Studies courses offered during the third and fourth years make up this program of instruction which must be completed by all students who seek a commission through AFROTC. Course continuity is designed to prepare selected college students to serve as active duty Air Force officers upon graduation and commissioning. The curriculum stresses national security forces in contemporary American society, leadership, management, and professionalism. Special emphasis is placed on developing the cadet's communicative skills. A course in mathematical reasoning must be completed prior to commissioning. Students entering this course must be selected in accordance with the prerequisites listed below.

Prerequisites For Admission To The Professional Officer Course

1. Be at least seventeen years of age at time of acceptance.
2. Be able to complete the Professional Officer Course and graduate from the University prior to reaching age twenty-six years and six months if entering Flight Training, or before age thirty if entering a non-flying category.
3. Pass the Air Force Officer Qualifying Test (AFOQT) and physical examination.
4. For those students enrolled in the four-year AFROTC program, complete the General Military Course or have acceptable prior military service. Veterans and students with previous ROTC training are invited to write or visit the Department of Aerospace Studies to discuss their status.
5. For those students desiring entry into the two-year AFROTC program, contact the Department of Aerospace Studies at the beginning of the Fall Semester one academic year prior to the Fall Semester in which they wish to enroll in the Professional Officer Course. This lead time is required to complete application, testing, and physical examination and to schedule for a six-week Field Training prior to fall enrollment in the Professional Officer Course.
6. Selection by the Professor of Aerospace Studies and acceptance by the University.

7. Execute a written agreement with the government to complete the Professional Officer Course and accept an Air Force commission.
8. Enlist in the Air Force Reserve (terminated on receiving Air Force officer commission).

The following POC courses are required:

AFR 3220 and AFR 2001	AFR 3231 and AFR 2001
AFR 4201 and AFR 2001	AFR 4211 and AFR 2001

Leadership Laboratory (AFR 2001)

Leadership Laboratory is the formalized phase of leadership training conducted by cadets. It is scheduled for one (1) hour each week for both the General Military and the Professional Officer Courses. All uniforms and equipment incident to cadet activities are furnished. All ROTC students are required to attend leadership laboratory.

Monetary Allowances

All cadets enrolled in the Professional Officer Course receive a tax exempt monetary allowance of $100 per month.

Air Force ROTC College Scholarship Program

Financial assistance is available in the form of AFROTC scholarships for selected students. Under this program, the Air Force pays for full tuition and fees, and provides an allowance for books, supplies, and equipment. In addition, the student receives a $100 per month tax-exempt allowance. Scholarships may be awarded for either two, two and one-half, three, three and one-half, or four years. Four-year scholarships may be applied for in the calendar year prior to college enrollment as a freshman. Other scholarships may be applied for after enrolling in Aerospace Studies courses. Scholarship students must complete, or demonstrate equivalent proficiency in, at least two (2) semesters in a major Indo-European or Asian language.

Summer Training

Students in the two-year program must complete a six week Field Training encampment before they may formally enroll in the Professional Officer Course. Training includes career training, physical conditioning, and the General Military Course academics.

Cadets enrolled in the four-year AFROTC program are required to attend a four- week Field Training encampment. Normally, this is prior to enrollment in the Professional Officer Course. Summer Field Training provides a better understanding of the United States Air Force mission, increases the cadet's proficiency in junior officer training areas, and stresses the importance of physical conditioning.

All Field Training encampments are conducted at active Air Force bases.

Students attending these encampments receive pay for the encampment plus travel allowances.

Officer Commissions

Cadets who complete the Professional Officer Course are appointed Second Lieutenants in the United States Air Force. They incur an obligated active duty tour of four (4) years for non-flyers, six (6) years for navigators and ten (10) years for pilots after completion of flight school.

Army ROTC
(Reserve Officers' Training Corps)

The Department of Military Science for Army Reserve Officers Training 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 Advance 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 both men and women students and provides free uniforms and textbooks. Enrollment is open to qualified students at all levels, including graduate students. The course offerings are available on both the St. Petersburg and Tampa campuses. 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 Advance 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, Northern Warfare School and the Ranger School is available to both Basic and Advance Course students during semester breaks. Adventure training is also available during the academic year during lab periods and selected weekends. The 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 and one semester per year of Leadership Laboratory. Leadership Laboratory consists of two hours of practical hands-on training (adventure training, physical readiness) per week. The program covers basic military history, organization and role of the Army, branches of the Army, leadership, map reading, and many other topics. Students incur no military commitment by participating in the Basic Course. One semester of Leadership Lab is required for each year of the Basic Course. These Labs are no cost and no credit, but fulfill requirements for satisfactory completion of 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.

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 requirements of the United States Army.

Advance Course

The Advance 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.

Office of Community College Relations

All transfers should refer to other entries about undergraduate transfers in the Admissions Section of this catalog.

Community/junior college and other undergraduate, transfer students, who need special assistance, should contact the Office of Community College Relations. The Office of Community College Relations assistS community/junior and other undergraduate, transfer students (and staff members of those colleges) to understand better the University of South Florida, its philosophy, its programs, and its procedural operations. This office has a responsibility for the interpretation of the community/junior college policies to the University. The ultimate goal of the Office of Community College Relations is to ensure equity for the transfer student. One significant contribution toward this goal is the annual preparation and delivery of the updated Community College Counseling Manuals to every Florida community/junior college and to other institutions by request.

Community College Relations works closely with Florida community/junior college students and staff, as well as with such USF offices as Admissions, Student Affairs, Records and Registration, and the various colleges and departments, while serving a coordinating function within the University by working with all areas concerned, in minimizing problems of transfer students coming to the University.

The University of South Florida subscribes fully to all of the provisions of the Statewide Articulation Agreement. It is strongly recommended that the student transferring from a community/junior college to the University of South Florida complete the associate in arts degree or, in certain prior-approved areas, the associate in science degree. Special details for students who do not plan to complete the associate degree requirements are available from the Office of Admissions.

It is recognized that enrolling in college is difficult for the freshman. In some respects, it is more difficult for the transfer student. The freshman student experiences only one transition, usually that from high school to college. The transfer student, on the other hand, must relearn some of the information regarding institutional regulations, grade-point computations, financial aid, institutional organization, etc. The Office of Community College Relations stands ready to lend assistance in this important, additional period of transition.

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 for the liberal arts major, 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 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 grade point average 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 grade point average. Students must demonstrate progress toward their degree and maintain a 2.5 grade point average 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 grade-point average, 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 make 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 provided to aid in construction and validation of tests used in classes and instruments such as surveys and questionnaires for research purposes. Test scoring and analysis by machine (OpScan 21 and NCS 3000) are available to all faculty and authorized personnel.
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).

Off-Campus Term Program

The Off-Campus Term (OCT) Program offers a program of experience-study whereby all 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, or internship projects, and many other personalized projects all off campus and all for academic credit anywhere in Florida, the U.S., or the world.

While most student activities are individually designed and implemented, the OCT Program also provides for some group projects. Foremost of these are three to six credit hours, faculty-led, short term group projects in the Caribbean annually, cooperative programs in Costa Rica and Venezuela, and the annual spring project for 10 to 15 hours credit in New York City. The latter project involves intense art, theatre, and urban interaction and living in a residential hotel at most favorable student rates.

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 towards general education and elective requirements. Credit may also be earned in the major field of study in some cases.

The OCT Program has a variety of course projects designed specifically for implementation entirely off-campus 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 are the foundation of each student's academic plan, supplemented with a project in the major field of study where possible. 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 grade average 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 returing for their academic cafreers 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 student and former students returning mustg attend an orientation program prior to the semester they enroll.

College Directed Programs

The colleges of Arts and Sciences and Business Administration administer a number of noncredit 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 International Language Institute

The International 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 noncredit 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 International 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 $2,084.00 per semester. There is an additional non-refundable $50.00 application fee.

For complete details, contact the International Language Institute, University of South Florida, Tampa, Florida 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, University of South Florida, Tampa, Florida 33620 or by calling (813) 974-4264.

The Center for Organizational Effectiveness

The purpose of the Center for Organizational Effectiveness is to assemble a talented group of faculty, international researchers and organizational leaders to advance our knowledge and expertise in areas such as leadership, strategic planning, innovation and creativity, organizational design and organizational effectiveness.

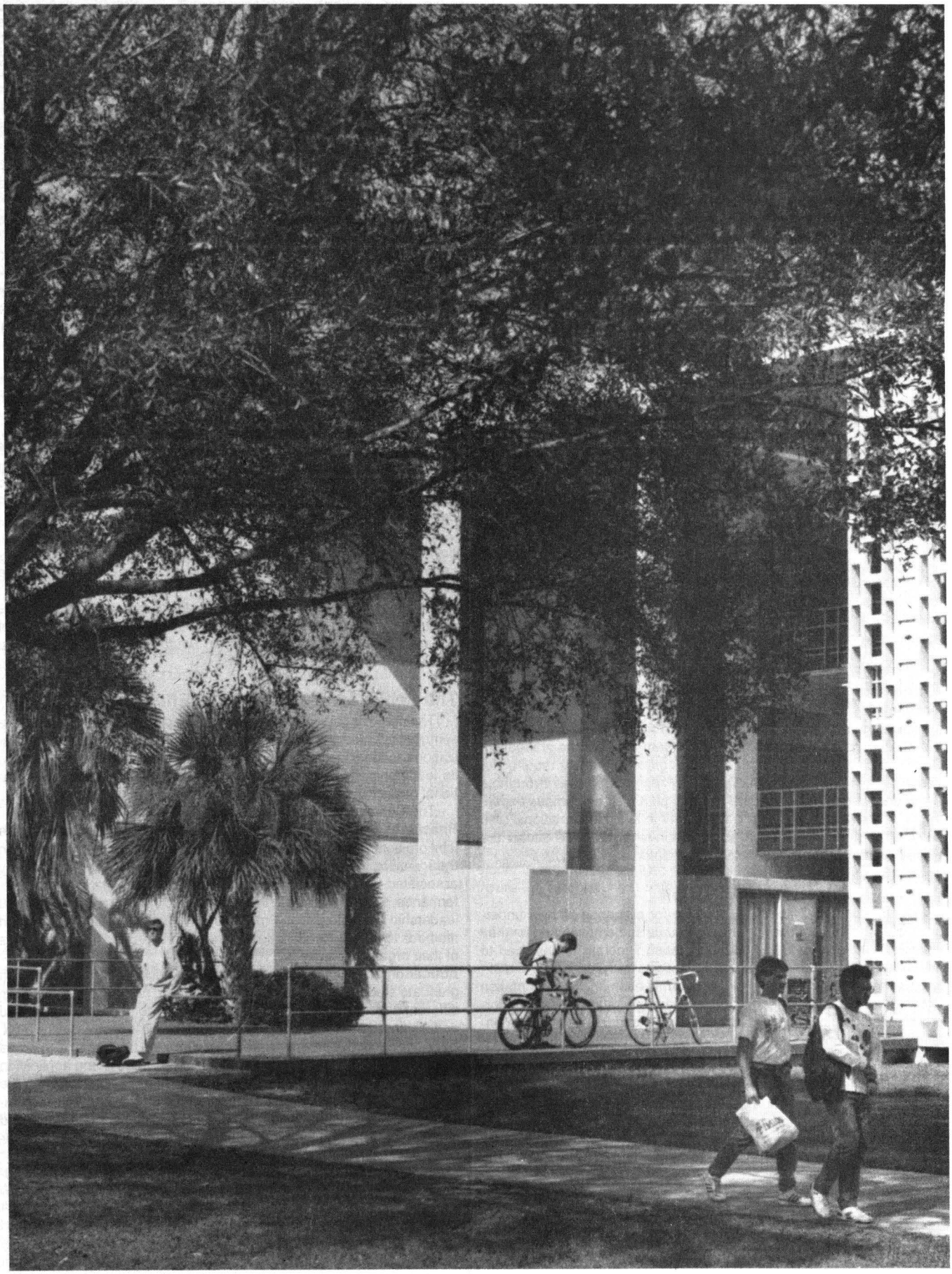
The Center contains three program areas:

Research: Center research programs have global involvement through joint projects with other international institutions. Research focuses on the identification and measurement of factors which are significantly associated with innovation, change and superior organizational performance, such as, factors in the external and internal environment and leadership characteristics. Programs of research are also focusing on methods to develop leaders so that they can improve the effectiveness of their organizations.

Education: The Center aims to serve as an educational forum in which graduate students, professional managers and research scholars from different nations exchange ideas about organizational leadership and performance. An annual international conference is planned in the area.

Service: Executive programs are offered through the Center to improve the effectiveness of participating organizations through the application of relevant research and methods. Such programs now focus on the assessment and development of leadership, the restructuring of organizations to meet the challenges of new competitive environments and improving an organization's capability in strategic planning and innovation.

For further information contact the Center for Organizational Effectiveness, (813) 974-4155, College of Business Administration, University of South Florida, Tampa, Florida 33620.



COLLEGE OF ARTS AND SCIENCES

The College of Arts and Sciences comprises some 35 academic departments and programs within the areas of arts and letters, natural sciences, and social and behavioral sciences. In keeping with the ideal of a liberal arts education, the purpose of this college is 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.

Note: *Effective Fall, 1991, 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 Associated of Arts degree awarded by a public community college in the State of Florida or as part of a Florida public community college transcript which explicitly indicates that general education or general distribution requirements have been met.*

FOR THE AREA OF ARTS & LETTERS

The area of Arts & Letters studies culture in the broadest meaning of the word. Students are offered a sense of themselves and their world, chiefly through courses and programs involving human expression and communication. Students not only receive a liberal education, but also explore vocational interests, as they develop both the breadth of knowledge and precision of mind necessary for responsible leadership in our society.

More specifically, Arts & Letters seeks:

1. To help students discuss new subjects, affording fresh ideas and talents enriching to life.
2. To enable students to work in several fields as a means of determining the best vocational choice.
3. To give sufficient development within the chosen vocational field so that the student will be prepared to obtain a job upon graduation or to move successfully into a graduate or professional school.
4. To join with the other programs/departments of the University in providing liberal arts courses to augment required training in professional schools.
5. To cultivate independent thinking, creative imagination, and value commitment, so that students may become constructive leaders in their chosen activities.

Accordingly, it is concerned with arts and letters, both as instruments and as ends in themselves. Language, literature, philosophy, the forms of communication, interdisciplinary studies, and other humanistic subjects are studied not merely for their utility, but for their intrinsic merit as well, and for what they tell us about what is permanently and universally significant to mankind.

S/U Grades

In Arts & Letters courses having S/U grading as an option, S/U contracts must be negotiated within the first four weeks of the term. The contract deadline for the summer term may be sooner than four weeks; students should consult their instructors at the beginning of the course. Freshman English may not be taken S/U.

BACCALAUREATE LEVEL DEGREE PROGRAMS IN ARTS & LETTERS

Admission to the Programs

Admission to the programs in Arts & Letters is open to all students who have been accepted to the University of South Florida, who are in good academic standing, and who have declared themselves a major in a particular field. The Mass Communications program has additional requirements, listed under Programs and Curricula.

For entrance into the programs in Arts & Letters, each undergraduate must submit to the Office of Academic Affairs (SOC 110) a Declaration of Major at least two semesters prior to graduation. Students declaring a Mass Communications major must obtain the departmental advisor's signature before submitting the Declaration of Major.

General Requirements for Degrees

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 done at the University of South Florida must be completed in order to earn the Bachelor of Arts degree. In addition, no grade of "D" within the major courses of Mass Communications, Communication, or English will be countable toward the degree.

The degree program must include the completion of (1) General Distribution Requirements, (2) a departmental major, (3) elective courses, (4) CLAST, (5) the writing and computation course requirements of 6A-10.30, and (6) the Foreign Language requirement(s). At least 80 semester hours must be completed in courses outside the department of the major. Mass Communications requires 90 hours outside the department.

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
Six (6) hours credit in Natural Sciences
Six (6) hours credit in Social & 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. 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. At least 80 semester hours must be earned in courses outside the student's major department (or language for foreign language majors). Mass Communications requires 90 semester hours outside the student's major. For English majors Freshman English counts toward that total, and for language majors beginning and intermediate foreign language courses will be counted toward this 80-hour requirement.

3. The Departmental Minor

Nine departments or programs offer minors: American Studies, Classics (3), Communication, English (3), Foreign Languages (6), Humanities (2), Linguistics, Philosophy, and Religious Studies. In general, these require half as many hours as are required for the major. These minors are open to degree-seeking students with a major within another department in Arts & Letters or elsewhere in the University, or with two languages in the Foreign Languages department. Specific requirements for the different minors appear under the departmental summaries that appear later in this section. No S/U grades will be accepted for a minor.

4. Elective Courses

Of the minimum of 120 semester hours required for a bachelor's degree, (124 semester hours for Mass Communications majors), 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. Physical Education (PE) credit earned before Quarter III, 1972, will not be counted toward the 120 semester hours required for the degree. However, up to four elective PE credits earned in Quarter III, 1972, or later, may be counted toward the 120-hour requirement. A maximum of six hours of ROTC credit may be counted as academic credit toward the B.A. degree.

5. Transfer Work

Work transferred from other schools will not be included in the grade point average computed for graduation, except in determining whether students are eligible to graduate with honors. (See Honors Section).

FOR THE AREA OF NATURAL SCIENCES

Students in 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 man and his relationship to the universe. In all its functions it is dedicated to fostering a spirit of inquiry and intellectual growth.

Programs are offered in biology, including botany, microbiology, and zoology; chemistry; geology; marine science; mathematics; medical technology; and physics. These programs are designed for students planning scientific careers in the science fields or for those planning professional health careers having a considerable component of science. These students will typically major in one of the sciences or in a combination of sciences as preparation for employment, or admission to professional or graduate schools.

In addition, Natural Sciences administers advising for the medical technology and clinical chemistry degree program. These programs combine specialized counseling and curriculum planning to assist the student in gaining admission to internship programs.

BACCALAUREATE LEVEL DEGREE PROGRAMS IN NATURAL SCIENCES

Admission to the Programs

To be admitted to the programs in Natural Sciences a student must make written application. Upon admission, the student will be assigned a faculty advisor for counseling and program planning. 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 medical technology internship program require specialized counseling. Because of this, immediate application for admission 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.

General Requirements for Degrees

In addition to the University graduation requirements, the requirements for graduation in any undergraduate degree are as follows:

1. Completion of a major program with a grade of "C" or higher in each course. A major program is defined to be courses in a department of concentration plus supporting courses in related departments. All courses in the major program must be taken with letter grade (A, B, C) except those courses which are graded S/U only. For a more detailed description of the major program requirements, consult the appropriate departmental section. Certain courses offered are designed for the non-science major or the non-departmental major. These courses are designated "For non-major," "No credit for (department) major," "No credit for science majors," or some similar phrase. For these courses the following rules apply:

   "For non-majors" - For majors, the course will count as credit toward graduation only as a free elective.

   "No credit for (department) major" - the course will not count toward graduation for a science major in the specified department, but will count towards graduation as a free elective for all non-specified departments.

   "No credit for science majors" - the course will not count toward graduation for any major.
2. Satisfaction of the University General Distribution Requirements, except:
   a. In area III, the minimum requirement of six hours in mathematics may be waived by credit in at least six hours of Mathematics courses required by the major.
   b. In area IV, the minimum of six hours in Natural Sciences may be waived by credit in at least six hours of natural sciences courses required by the major.
3. Completion of the Liberal Arts Electives Requirements. This is 15 hours of courses from Fine Arts, Social & Behavioral Sciences, or Arts & 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 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. However, "Gordon Rule" writing courses may be used, if not used in General Distribution Requirements.
4. Subsequent to admission, a student must complete at least 30 credit hours of letter graded courses in Natural Sciences, of which at least 12 hours must be applicable to a major. Up to 2 credits of elective physical education, and up to 9 credits in military science courses MIS 1000, 3404, 4421C may count as free electives toward graduation. Credits transferred from other schools will not be included in the grade point average computed for graduation. For graduation with honors, see section in Academic Policies and Procedures.

   Departments in Natural Sciences may have specific requirements in addition to those listed in this catalog. Please contact the respective departments for departmental rules or requirements. The student is responsible for meeting all graduation requirements.
5. Satisfactory completion of the College Level Academic Skills Test and the writing and computation course requirements of State Rule 6A-10.30.

Grading Systems

Natural Sciences will provide some evaluation of performance in all structured undergraduate courses prior to the drop deadline.

Typically, courses in the University receive letter grades (A, B, C, D, F, I). However, Natural Sciences recognizes that educational competence may be achieved and demonstrated by experiences other than classroom attendance leading to letter grades. The attention of the student is directed to the following:

1. CLEP and other advance placement examinations.
2. Waiver by either documentation or examination.
3. Off-Campus Term programs.
4. Cooperative Education Program.
5. Independent Study
6. S/U Graded Courses.
   a. With the exception of courses graded S/U only, all courses required to satisfy the departmental major and all supporting science courses are considered in the student's major program and may not be taken S/U. However, once the requirements of the major program have been satisfied, subsequent courses taken in the major or supporting areas are considered free electives and may be taken S/U. All hours required to complete the Liberal Arts Elective Requirement of 15 hours must be taken by letter grade.
   b. With the exception of ENC 1101 and ENC 1102, all courses in the General Distribution Requirements and all courses in free electives may be taken S/U. There is no restriction regarding the number of hours to be taken S/U except the graduation requirement that the student must earn at least 30 credit hours with letter grades in Natural Sciences subsequent to formal admission to the college.
   c. Students will be permitted to enroll in a course for an S/U on the basis of a written contract signed by the student, and the

instructor of the course. This contract must be completed no later than the third week of the Fall, Spring, and Summer C terms, and by the end of the second week of Summer A and B terms.

d. Each instructor for courses in Natural Sciences will provide students with requirements necessary to attain an "S" grade. Essentially, "S" is equal to a "C" or better.
e. Students transferring from any other college/division of the University will be subject to the above requirements.

FOR THE AREA OF SOCIAL & BEHAVIORAL SCIENCES

The social and behavioral sciences are primarily concerned with human beings: their history, their individual behavior, their social and political institutions, and their problems. The study of man by broadly-conceived methods of science contributes to an understanding of the individual in a social context. Such insight provides an essential component of a liberal education by instilling a more enlightened world view and by helping the student to become a better informed citizen realistically prepared for a fulfilling role in contemporary society.

The social and behavioral sciences deal not only with the human but also with the humane. While the basic disciplines are dedicated to the search for truth about the human condition, the applied social sciences seek to use the knowledge gained to alleviate significant social and personal problems. The setting of the University in the rapidly expanding Tampa Bay metropolitan area provides exceptional opportunities for the development of urban related applied social science activities.

The Human Resources Institute of the College of Arts and Sciences was established to address critical issues in the human resources sector through a comprehensive program of research and service. By authorization of the Board of Regents, a Program of Emphasis in Human Services was established at the University of South Florida for the enhancement of selected programs including several in Social & Behavioral Sciences. Because of its balance of basic and applied programs, it is uniquely structured to allow students to gain experience and background for future applications in human service fields, in government, in business and in other fields of endeavor, or to pursue graduate study in several disciplines.

BACCALAUREATE LEVEL DEGREE PROGRAMS IN SOCIAL & BEHAVIORAL SCIENCES

Admission to the Programs

Admission to Social & Behavioral Sciences is open to students who have been accepted to the University of South Florida and who declare a major in a particular field. The Bachelor of Social Work, however, is a limited access degree program and does require satisfaction of additional criteria prior to admission.

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 will then be counseled by an academic adviser in his/her major field. Information about majors, departments, programs, advising, and other services may be obtained from the Office of Academic Affairs (SOC 110), College of Arts and Sciences, University of South Florida, Tampa, Florida 33620.

Any student in the University may take courses in Social & Behavioral Sciences. Students in other colleges or adults in the community may select social and behavioral science courses of particular interest.

Academic Minor Programs

In order to help students develop some concentration in elective work taken in conjunction with their chosen major, Social & Behavioral Sciences offers minors in the following fields: African Studies, Afro-American Studies, Anthropology, Criminology, Economics, Geography, History, Human Services, International Studies, Manual Communications, Political Science, Psychology, Sociology, and Women's Studies. (See following pages for requirements in specific minors offered.) There are certain restrictions that apply to students earning a minor: (1) students who major and minor in Social & Behavioral Sciences may not use courses in the major for the minor or for general distribution requirements; (2) only degree-seeking students may earn a minor in the social and behavioral sciences; and (3) ISS majors may not earn a minor in any of the social and behavioral sciences incorporated in their contracts. Minors will be certified at the time of graduation.

General Requirements for Degrees

Social & Behavioral Sciences currently offers three undergraduate degrees: Bachelor of Arts, Bachelor of Science and Bachelor of Social Work. Requirements for graduation are summarized as follows:

1. 120 credits with at least a "C" average (2.0) in courses taken at the University of South Florida. At least 60 of these credits must be from baccalaureate degree granting institutions. At least 40 of these 120 credits must be in courses numbered 3000 or above. (A maximum of two credits of physical education courses may be counted toward graduation requirements; no credits in physical education are required.) No more than 9 credits from ROTC (aerospace studies, military science), may count toward graduation.
2. 40 credits of general distribution courses are required by the University in the areas of English Composition, Fine Arts and Humanities, Mathematics and Quantitative Methods, Natural Sciences, and Social and Behavioral Sciences. (See General Distribution Requirements.) Transfer students with standard AA degrees will be considered to have met the University's General Education Requirements; however, such students who have not gained exposure to each of the five areas are strongly encouraged to make up deficiencies early in their USF careers.
3. 12 credits of courses requiring written assignments of 6000 words; 6 credits of college level math. (Transfer students with AA degrees from Florida public institutions will be considered to have met this requirement.) These courses may be used to satisfy General Distribution Requirements.
4. Completion of a major in a subject or an integrated major, with at least a "C" average (2.0), or 2.75 in the case of Social Work majors. (See following pages for requirements in specific majors offered in the college.)
5. Students graduating with a Bachelor of Arts degree must demonstrate competency in a foreign language.
6. 80 credits outside the major.
7. Credits transferred from other institutions will not be included in the computation of the grade point average for graduation. To be eligible for graduation with honors requires at least 3.5 average in all USF work and all previous Social & Behavioral Sciences work.
8. A student must complete at least 30 of the last 60 credits in academic residence at USF. The approval of the Associate Dean of the college granting the degree must be secured for any transfer credits offered for any part of these last 60 hours.
9. Satisfactory completion of the College Level Academic Skills Test, and the writing and computation course requirements of 6A-10.30.
10. A maximum of 20 hours of optional S/U credits may be counted towards the 120 hours needed for the degree. None of the 20 credits may be taken in the student's major.

Students are encouraged to consult regularly with an academic adviser in his/her major. It must be noted, however, that the student assumes full responsibility for satisfying all University, College, and departmental requirements for graduation. Students must apply for graduation by the deadline at the beginning of their last term of residence at USF. Students who receive permission to complete requirements for the B.A., B.S. or B.S.W. as transient students should apply for graduation the term after all coursework has been completed.

Advice to Freshmen and Lower Level Transfers

Work with an adviser, plan a schedule each semester of 12 to 18 credits. Each term until you reach 60 hours take:

1. At least one course with writing assignments of 6000 or more words until you have completed 12 credits of such courses. Start with ENC 1101 and 1102 unless you have received CLEP credit for Freshman English.
2. A college level math course (if you are eligible following math testing) until you have completed 6 credits, or a natural science course (suggestions: CHM 2021, PHY 2038, GLY 2850, GLY 3006, OCE 3001, any AST) until you have completed 6 credits. Six credits in each area are required for graduation.
3. One course in the Social Sciences designed for freshmen and sophomores. These courses have prefixes of AFA, AMH, EUH, GEA, SYG, POS, SSI, and WST, and are at the 1000 or 2000 levels.
4. One course in the Behavioral Sciences from among ANT 2000, PSY 2012, SYG 2000. As sophomores, you may also choose from ANT 3005, CCJ 3003, DEP 3103, GEY 3000, HUS 3001, SPA 4004, SSI 2221.
5. An elective outside Social & Behavioral Sciences. You are most likely to find appropriate courses in Arts and Letters, Fine Arts, and Natural Sciences. At least 6 of these credits should be in the humanities, unless you have chosen humanities courses to fulfill item 1 above.

Programs Leading to the Baccalaureate Degree

The departments and programs in the College of Arts and Sciences are American Studies, Anthropology, Biology, Chemistry, Classics, Communication, Communication Sciences and Disorders, Criminology, Economics, English, Foreign Languages, Geography, Geology, Gerontology, History, Humanities, Mass Communications, Mathematics, Philosophy, Physics, Political Science, Psychology, Public Administration, Rehabilitation Counseling, Religious Studies, Social Work, and Sociology; African and Afro-American Studies Program, Independent Studies (BIS) Program, Medical Technology Program, 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
African and Afro-American Studies (AFA)
American Studies (AMS)
Anthropology (ANT)
Biology (BOE)*
Chemistry (CHM)
Classics (Latin, Latin-Greek, Interdisciplinary Classics) (CLS)
Communication (SPE)
Criminology (CCJ)
Economics (ECN)
English (ENG)
Geography (GPY)
Geology (GLY)
German (GER)
Gerontology (GEY)
History (HTY)
Humanities (HUM)
Interdisciplinary Natural Sciences (INS)
Interdisciplinary Social Sciences (ISS)
International Studies (INT)
Italian (ITA)
Mass Communications (COM)
Mathematics (MTH, MAE*)
Medical Technology (MET)
Philosophy (PHI)
Physics (PHE*, PHY)
Political Science (POL)
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)
Biotechnology (BTK)
Botany (BOT)
Chemistry (CHS)
Clinical Chemistry (CHC)
Geology (GLY)
Gerontology (GES)
Microbiology (MIC)
Physics (PHS)
Zoology (ZOO)

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, 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
Non-Degree Programs

The Certificate of Concentration is a short-term-goal program for adults 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. The courses, on an undergraduate level, are offered to adults who may or may not have a degree. The Certificate of Concentration is awarded when a minimum of 16 semester hours have been completed in a given area or in a combination of areas. (In a combination of areas, 8 semester hours must be in one particular area.) It is a program that may be taken on a satisfactory-unsatisfactory or letter-grade basis and may be applied toward an undergraduate degree in Arts and Sciences. Students working for a Certificate of Concentration register as special rather than as degree-seeking students.

Certificate of Interpretation For the Deaf

The College of Arts and Sciences offers a Certificate in Interpretation for the Deaf for students who want to facilitate the communicative needs of the deaf in our complex society. The certificate program incorporates academic training with practica designed to provide the student with interpreting experiences in a variety of situations. Students seeking this certificate must meet the admission requirements of the University and possess as a minimum the sign language proficiency equivalent of a Level II score on the Quality Assurance

Examination for Sign Language. Information and advice about the certificate program may be obtained from the Interpreter Training Program Coordinator in the Department of Communication Sciences and Disorders. The program is open to students in all colleges.

The certificate program consists of the following courses:

SPA 4000 (3)	SPA 4332 (3)	SPA 4930-003 (3)
SPA 4363 (3)	SPA 4930-001 (3)	SPA 4050-001 (2)
SPA 4331 (2)	SPA 4930-002 (3)	SPA 4050-004 (2)

Approval by the Coordinator of the Interpreter Training Program must be obtained prior to enrollment in this certificate training program. When the student has completed the above requirements, the Coordinator of the Interpreter Training Program will recommend the student for the certificate.

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 must be planned around the following core courses:

GEA 3400	Geography of Latin America
LAH 3200	Modern Latin America
CPO 4930	Comparative Government and Politics (Latin America)
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 less 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)
LIN 6377	The structure of a Specific Language (Russian or another Slavic language) (3)
RUS 1120	Beginning Russian I (4)
RUS 1121	Beginning Russian II (4)
RUS 3240	Conversation and Composition I (4)
RUS 3500	Russian Civilization (3)
RUS 4241	Conversation and Composition 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	Soviet Union Today (3)
GEA 3554	Geography of the USSR (4)
INR 5086	Issues in International Relations (3)
ISS 3260	Communism in the Modern World (3)
ISS 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.

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	HUS 4700
SOW 4332	HUS 4100	HUS 5325

HEALTH PROFESSIONS

The University of South Florida is an excellent location to prepare for a health profession. The Veterans Administration Hospital, University of South Florida Medical Center, Shriner's Hospital for Crippled Children, H. Lee Moffitt Cancer Center and Research Institute, University of South Florida Mental Health Institute, and University Community Hospital are within walking distance of the campus and offer students excellent opportunities for observation, research, and experience.

The College of Arts and Sciences offers programs designed to prepare students for admission to professional schools of medicine, osteopathic medicine, dentistry, 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 preprofessional work. The preprofessional programs do not meet requirements for a degree. Students should plan to also complete a degree while at USF because professional schools prefer students with a bachelor's degree, although they do not specify the choice of major. Most preprofessional students major in the sciences because of their interests in the health sciences, and because of the considerable overlap between the preprofessional 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 competitive, 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.

The Preprofessional Sciences 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 2010C (4) BSC 2011C (4)

Chemistry:
CHM 2045 (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), PHY 3053L (1), PHY 3054 (3), PHY 3054L (1) or PHY 3048 (3), PHY 3048L (1), PHY 3049 (3), 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 4023C (4) PCB 5235 (3)

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

Preoptometry Program

Optometry schools differ somewhat in requirements, but all optometry schools require at least two years of preoptometry studies, and most schools require the following courses:

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

Chemistry:
CHM 2045 (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 schools that have contracts with the State of Florida: 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 APB 3190.

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

Chemistry:
CHM 2045 (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), PHY 3053L (1), PHY 3054 (3), PHY 3054L (1) or PHY 3048 (3), PHY 3048L (1), PHY 3049 (3), 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 should be completed at the University of Florida no later than the summer prior to application. Recommended courses are ZOO 3713C (4), ZOO 4693 (4), PCB 4743C (4), and MAC 3234 or MAC 3312 (4).

Prepharmacy Program

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

Biology:
BSC 2010C (4) BSC 2011C (4)

Chemistry:
CHM 2045 (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. Prepharmacy 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 2010C (4) BSC 2011C (4)

Chemistry:
CHM 2045 (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: ZOO 3713C, APB 3190, STA 3023, AMH 2010 or AMH 2020, PSY 2012, CLP 4143, SYG 2000, and a health or physical education elective. 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. Admission is competitive, and students should have one year of direct patient care experience. Students must complete general education requirements, a total of 64 semester hours of credit, and the following science courses:

Biology:
BSC 2011C (4) MCB 3030C (4)

Chemistry:
CHM 2045 (3) CHM 2046 (3)
CHM 2045L (1) CHM 2046L (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 2010C (4) BSC 2011C (4)

Chemistry:
CHM 2045 (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), PHY 3053L (1), PHY 3054 (3), PHY 3054L (1) or PHY 3048 (3), PHY 3048L (1), PHY 3049 (3), PHY 3049L (1)

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

Biology:
PCB 3063 (3) ZOO 4693 (4) MCB 3030C (4)
PCB 4023C (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), MAC 3234 (4), STA 3023 (4) or MAC 2132 (4), MAC 3311 (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 College of Arts and Sciences.
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.

The 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, Mathematics, and Physics are found in this section of this catalog under the respective headings in Chemistry, Mathematics, and Physics.
2. The student may complete requirements of the Interdisciplinary Natural Sciences major with concentration in Biology, Chemistry, Physics, and Mathematics. A complete description of this major is found in 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)" for the required education courses and sample programs.

TRANSFER CREDITS

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. 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.

PROGRAMS AND CURRICULA

■ AMERICAN STUDIES (AMS)

The American Studies major is designed for those students interested in studying the relationships among the important elements which shape and identify American Civilization. American Studies is a multidisciplinary department drawing upon a variety of courses from outside the program and outside the college. Bachelor's and master's degrees, and a minor are available in American Studies.

Requirements for the B.A. Degree:

Required Core Courses (24 cr. hrs.)

AMS 3001 (4) AMS 3230 (4)
AMS 3201 (4) AMS 4935 (4)
AMS 3210 (4) AMS 4936 (4)

Students are required to take related electives from supporting departments chosen in consultation with an American Studies adviser (22 cr. hrs.). American Studies courses may also be counted toward the electives requirement. Students desiring to major in American Studies are reminded that an interview with a department adviser is mandatory.

Requirements for the Minor in American Studies:

Total Semester Hours Required (18 cr. hrs.)

1. Required Courses (12 cr. hrs.)
   a. AMS 3001 (4)
   b. Any two of the following:
   AMS 3201 (4) AMS 3210 (4) AMS 3230 (4)
2. Supplemental Courses (6 cr. hrs.)

These six hours may be taken from courses with an AMS prefix or selected from pertinent courses in related departments. In the latter case, courses should be chosen in consultation with an American Studies adviser.

Students must indicate their intent to minor in American Studies with the department adviser. The Declaration of Minor form should be completed during this initial meeting with the adviser.

■ 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 in the Human Resources Institute, College of Arts and Sciences. The Center 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 (ANT):

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 4133 (3) ANT 4172 (3) ANT 4124 (4)
ANT 4153 (3) ANT 4181 (4) ANT 4158 (4)
ANT 4162 (3) ANT 4180 (4) ANT 4163 (3)

Physical Anthropology

ANT 4542 (3) ANT 4583 (3) ANT 4586 (3)
ANT 4552 (3)

Anthropological Linguistics

ANT 4620 (3) ANT 4750 (3)

Cultural Anthropology

ANT 4226 (3) ANT 4316 (3) ANT 4462 (3)
ANT 4231 (3) ANT 4326 (3) ANT 4495 (3)
ANT 4241 (3) ANT 4340 (3) MUH 4521 (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.

■ 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 in order 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
   a. Biology Core Courses (Required for all B.S. degrees, 19 cr. hrs.)
      BSC 2010C (4), BSC 2011C (4)
      One of the following:
      BOT 3373C (4) ZOO 3203C (4)
      MCB 3030C (4)
      plus
      PCB 3063 (3) and PCB 3023C (4)
   b. Individual Degree Requirements
      BIOLOGY MAJOR (BIO) (21 cr. hrs.)
      One of the following:
      PCB 4743C (4) BOT 4503 (4)
      MCB 4404C (5)
      plus PCB 4043C (3) OR PCB 4674 (3)
      plus one of the following:
      PCB 4184C (4) ZOO 4693C (4)
      ZOO 3713 (4)

The remaining credits may be taken from departmental electives, structured and applicable to the major to meet the minimum requirement (at least 8 hours must be at the 4000 level or higher). BCH 3033 may apply toward the Biology electives as well as 4 hrs. of BSC 4910.

BOTANY MAJOR (BOT) (21 cr. hrs.)
BOT 3373C (0)
PCB 4043C (3) or equivalent

Of the remaining credits, not less than 9 must be selected from structured Botany (BOT) courses at the 4000 level or above.

Additional credits to meet the minimum may be taken from courses (BOT, BSC, PCB) applicable to the major. A maximum of four (4) hours of BSC 4910 may apply towards the Botany electives (no more than two (2) hours per semester).

MICROBIOLOGY MAJOR (MIC) (24-27 cr. hrs.)
MCB 3030C (4) MCB 4115 (5)
MCB 4404C (5) MCB 4505C (3)
MCB 4934 (1)
APB 4053C (4) or PCB 5235C (3)
plus
BCH 3023 (3) and BCH 3023L (2)
or
BCH 5065 (3) and BCH 3033L (2)
Plus one of the following:
MCB 5815C (3) BOT 4434C (3)
ZOO 5235C (4)

ZOOLOGY MAJOR (ZOO) (19-22 cr. hrs.)
ZOO 3203C (4)
PCB 4043C (3)
PCB 4743C (4)
PCB 4674 (3)

Three (3) additional structured courses from the Zoology section of the catalog (ZOO, PCB, ENY) or BSC 3263, PCB 4253, PCB 5415, or PCB 5835C (which are listed in the Biology section of the catalog).

2. Supporting Courses in the Natural Sciences (required for all B.S. degrees, 27-38 cr. hrs.)
   Chemistry

CHM 2045 (3)		CHM 2046 (3)
CHM 2045L (1)		CHM 2046L (1)
plus the following two courses:	**or**	the following four courses:
CHM 3200 (4)		CHM 3210 (4)
CHM 3210L (1)		CHM 3210L (1)
		CHM 3211 (4)
		CHM 3211L (1)

   and BCH 3033 (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.
4. Liberal Education Electives
   The student must satisfy 15 hours of liberal education electives as described in item 3 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.

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 TRACK:
B.S.IN BOTANY

I. Department of Biology
   Major requirements (min. 40-41 hrs.)

BSC 2010C (4)	BSC 2011C (4)	BOT 3373 (4)
PCB 3063 (3)	PCB 3023C (4)	PCB 4043C (3)
BSC 4933C	Sel. Topics in Ecology* or	PCB 5306C (4)
BOT 4503	(4)	
BSC 4933C	Sel. Topics in Ecology* or	BOT 5605C (3)
BOT 4713C (4)		

   BOT 5185C (3) or BOT 4434C (3) or Approved Sel. Top.*
   *(by approval of biology advising committee)

ENVIRONMENTAL SCIENCE TRACK:
B.S.IN ZOOLOGY

I. Department of Biology
Major requirements (min. 40-41 hrs.)
BSC 2010C (4) BSC 2011C (4) ZOO 3203C (4)
PCB 3063 (3) PCB 3023C (4) PCB 4043C (3)
ZOO 3203C (4) PCB 4743C (4) PCB 4647 (3)
BSC 4933C Sel. Topics in Ecology*
or PCB 5306 (3) or ZOO 5555 (4)
*(by approval of biology advising committee)

II. Supporting Courses for both Environmental Science Tracks (min. 34*-38 hrs.)
CHM 2045 (3) CHM 2045L (1) CHM 2046 (3)
CHM 2046L (1) CHM 3200 (4) CHM 3210L (1)
or CHM 3210 (4) CHM 3210L (1)
CHM 3211 (4) CHM 3211L (1)
MAC 3233 (4) MAC 3234 (4)
or MAC 3311 (4) MAC 3312 (4)
PHY 3053 (3) PHY 3053L (1) PHY 3054 (3)
PHY 3054L (1)
*(by approval of biology advising committee)

III., IV., and V. General university requirements.

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 advisers 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.

I. 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)
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:
APB 4053C, PCB 5235C, CHE 4100C or ETE 5100,
PCB 5525C, MCB 4505

II. Supporting Courses (min. 43-48 hrs.)
CHM 2045 (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), MAC 3282 (3), MAC 3283 (3) or MAC 3311 (4), MAC 3312 (4), MAC 3313 (4)
PHY 3048-3049L (8) or PHY 3053-3054L (8)
plus PHS 3101(2)
COP3170 (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 Education Electives

The student must satisfy 15 hours of liberal education electives as described in item 3 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)
ZOO 5335C (Biogeography)

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

1. Chemistry Courses*

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

CHM 2045 (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 2045 (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 2045 (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 (4)
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 College discipline 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)	MAC 3311 (4)	
MAC 3282 (3) or		
MAC 3283 (3)	MAC 3312 (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)		MAC 3311 (4)
MAC 3282 (3)	or	MAC 3312 (4)
MAC 3283 (3)		MAC 3313 (4)
PHY 3048 (3)		PHY 3049 (3)
PHY 3048L (1)		PHY 3049L (1)

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 Education Electives

The student must satisfy 15 hours of liberal education electives as described in item 3 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.

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 (CLS, CLA, CLT, GRE, GRW, LAT, LNW)

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 Latin, Latin-Greek, and Interdisciplinary Classics. Major programs in Classics require a minimum of 36 hours of course-work; Latin, Greek, and Interdisciplinary Classics may also be taken as minors. The minors consist of a minimum of 22 hours of course-work.

Instruction in Modern Greek (GRK 3120, 3121) is available.

LATIN

(Basic preparation for the 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 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 (4)	EUH 2011 (3)	EUH 3413 (4)
CLA 4123 (4)	EUH 2012 (3)	PHP 4000 (3)
CLT 3040 (3)	EUH 3401 (4)	PHP 4010 (3)
CLT 3101 (3)		

LATIN-GREEK

Required courses for the Latin-Greek major

16 hours in advanced Latin (see Latin major above) and 8 hours in beginning Classical Greek, GRE 1120, 1121.

Supporting courses required for the Latin-Greek major

12 hours selected from the list of supporting courses given for the Latin major above.

Requirements for the Latin minor:

16 hours in advanced Latin (see 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)		

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 (4)	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 Latin and 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)
      Hellenic Greece (EUH 3401) (4)
      Hellenistic Greece (EUH 3402) (4)
      Roman Republic (EUH 3412) (4)
      Roman Empire (EUH 3413) (4)
   f. One course from:
      Ancient Civilization (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	(2)
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 Division of Interdisciplinary Social Sciences. Concentrations in Speech-Language-Hearing Science and American Sign Language lead to the B.A. degree. The ISS undergraduate concentration in Speech-Language-Hearing Science provides preprofessional study for Master's level preparation as a Speech-Language Pathologist or Audiologist. The American Sign Language (ASL) 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.

ISS Concentrations in Communication Sciences and Disorders

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 ISS concentration will also meet other university requirements.

B. Prerequisites for Admission

1. Required Courses
   BSC 2010C 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 ISS 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 (min. 35-37 cr. hrs.)

Coursework is sequenced for the ISS 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. In the senior year, a student can select a focus area in either Speech-Language Pathology or in Hearing Impairment. 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 3101 (3) SPA 4562 (3)
SPA 3011 (3) SPA 4050 (3) SPA 4930 (3)
SPA 3112 (2) SPA 4201 (3) DEP 4135 (3) (recommended).
SPA 3030 (3) SPA 4363 (3)
Speech-Language Pathology Focus
SPA 3380 (3) & 3380L (1) (recommended).
SPA 4210 (3) SPA 4222 (3)
Hearing Impairment Focus
SPA 3380 (3) & SPA 3380L (1)

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 (min. 30 cr. hrs.)

The ASL 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 ISS 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 RehabilitativeAudiology, including Deaf Education. Those students choosing to become teachers of the deaf must pursue the ISS concentration in Speech-Language-Hearing Science and obtain the M.S. degree.

General admission requirements, recommended admission requirements, and ISS requirements are identical to the ISS concentration in Speech-Language-Hearing Science. The specific course of study for the ASL 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 4930 (3) SPA 4363 (3)
SPA 4382 (3) and SPA 4382L (1)
SPA 4383 (3) and SPA 4383L (1)
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. Should a student fail a course in the area of concentration during the first year in the major, no more than two courses may be repeated for grade forgiveness. 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 for professional training in one or more of the specialized areas comprising the modern urban Criminal Justice System.

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) or CCJ 3621 (3)*
CCJ 3701 (3) or CCJ 4700 (3)
CCJ 4934 (3) CCJ 4110 (3)
*Subject to Departmental approval for required credit.

In addition to the above, a minimum of 15 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. 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 business problems as well as contemporary societal issues such as controlling unemployment, inflation, pollution, and crime. The department offers both major and minor programs requiring courses in basic economic analysis. With elective courses offered in industrial organization, labor economics, international trade, public finance, monetary economics, econometrics, history of economic thought, economic development, comparative economic systems, and other areas, students may tailor their study toward business, teaching, or government service careers. The economics curriculum also provides excellent

preparation for those students seeking graduate or professional degrees in social sciences, law, or business.

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:

ECO 2023 (3) QMB 3200 (3) ECO 3203 (3)
ECO 2013 (3) ECO 3101 (3) ECO 4303 (3)
QMB 2150 (3)

The student is required to have obtained a grade of "C" in ECO 3101, Intermediate Price Theory, in order to enroll in any course for which ECO 3101 is a prerequisite.

In addition to this core, students are required to select 12 hours of electives. Students are encouraged to select 3000-level courses in several of the applied areas during their junior year. At least 9 of the 12 hours of electives must be in courses for which ECO 3101 is a prerequisite. The remaining economics elective must be selected from those upper level courses that provide the type of program that best suits the student's interests and objectives. Not more than 3 hours of credit may be earned in ECO 4905 and ECO 4914.

Economics majors working at the regional campuses cannot expect to fulfill all economics course requirements at those regional campuses.

Students majoring in economics are encouraged to supplement their programs with appropriate courses in other social sciences. Political science, psychology, sociology and others contribute greatly to an enriched plan of study. Similarly, a variety of 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)

2. 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.
3. Before being recognized as a minor in economics, a student must obtain approval by the adviser in the Economics Department of the courses involved in the student's minor program.
4. 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.
5. 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:

1. First-time-enrolled students (a) who do not intend to take the CLEP Freshman English Test, or (b) who have been notified of failing CLEP prior to registration and who do not intend to attempt the exam a second time must take ENC 1101 and ENC 1102 sequentially. If a student fails the first course, he/she must repeat it before proceeding to the next Freshman English course. Students should normally take these courses during their freshman year, but these courses are in high demand and it is possible that registration space will not always be available.
2. First-time-enrolled students (a) who have not taken CLEP prior to their arrival on campus, or (b) who have failed but wish to repeat the test, must attempt CLEP during their first nine (9) weeks. During this semester, they should not enroll in ENC 1101. If a student either fails or 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:

1. Both of the following:
   AML 3031 AML 3032
2. 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
3. Five of the following, at least two of which must be at the 4000 level:

AML 3051	AML 4101	AML 4123
AML 4261	AML 4300	ENG 3105
ENG 3114	ENG 4013	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 4100	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.

1. *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.

2. *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.

1. *Composition requirements*:
   Five of the following:
   CRW 2100 ENC 4260 ENC 3210
   ENC 4311 ENC 3213 ENC 4931
   ENC 3310
2. *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 Minor in English:

English and American Literature Minor

Requirements: Five courses (15 hrs.) as follows:

1. *One of the following*:
   AML 3031 AML 3032
2. *Two of the following*:
   ENL 3015 ENL 3230 ENL3250
   ENL 3273 ENL 3331 or ENL 3332
3. *One course at the 4000 level*
4. *One additional course with AML, CRW, ENC, ENL or LIT prefix*

Creative Writing Minor (15 hrs.)

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.

■ FOREIGN 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 3244 (3) FRE 3420 (3)
FRW 4100 (3) FRW 4101 (3)

Supporting courses required for the major

20 hours in 3000, 4000, or 5000 level courses planned with the adviser.

Required courses for the minor (6 cr. hrs.)
FRE 3244 (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 adviser.
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 adviser.
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 adviser.
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 4100 (3) SPW 4101 (3)
SPW 4130 (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 adviser.
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.

■ GEOGRAPHY (GPY)

Geography explains the variable character of the earth's surface. The two major divisions of geography are physical and cultural (human). Physical geography includes the study of earth-sun relationships, weather, climate, and natural features of the landscape, such as landforms, soils, vegetation, and hydrology. Cultural geography studies people, their various cultures, levels of technology, and economic activities that operate differentially to alter the natural landscape.

Geography's overriding purpose is to understand the earth as the home of humankind. A major concern of geography is the wise use of natural, human, and economic resources. Therefore, ecological and environmental considerations are central to the study of geography.

Students are encouraged to take elective credits in a wide variety of disciplines because of the cross-disciplinary approach to geography.

Geographers typically work as urban and regional planners, environmental specialists, map and aerial photographic analysts, and resource managers.

Requirements for the Baccalaureate Degree:

A major in geography consists of 36 credit hours as follows:
Required core courses (12 credit hours).
GEO 3013 (4) GEO 3014 (4) GEO 4100C (4)
One of the following (4 credit hours).
GEO 4280C (4) MET 4002 (4) MET 4010 (4)
Two of the following (8 credit hours).
GEO 3402 (4) GEO 4440 (4) GEO 4470 (4)
GEO 4372 (4) GEO 4460 (4) GEO 4502 (4)
GEO 4602 (4)
One course with a GEA prefix (4 credit hours).
Any additional 8 credit hours in geography, excluding
GEO 3901 GEO 4900 GEO 4910
GEO 3931C GEO 1930 GEO 4201

Requirements for the Minor:

A minor in Geography consists of sixteen hours, with a minimum grade-point average of 2.0. The required courses are:
GEA 3000 (4) GEO 3013 (4) GEO 3014 (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 is designed to provide the geology major with a broad foundation that will prepare the student for employment in industry or with various governmental agencies, as well as the necessary training to continue study in graduate school. 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 coastal geology, hydrogeology, environmental geochemistry, applied geophysics, volcanology, and paleontology.

Requirements for the B.A. Degree:

1. **Geology Courses** (30 sem. hrs.)
   GLY 2010 (4) GLY 3220 (3) GLY 4200 (3)
   GLY 2100 (4) GLY 3400 (4) GLY 4550 (4)
   GLY 3200 (3) GLY 3610 (4)
   A minimum of 2 sem. hrs. from GLY 4920 (1)
2. **Supporting Courses** (22-28 sem. hrs.)
   a. CHM 2045 (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 require-

ments of Natural Sciences.

4. **Liberal Education Electives**
   The student must satisfy 15 hours of liberal education electives as described in item 3 of the graduation requirements of Natural Sciences.
5. **Free Electives** (including Distribution waivers) (29-35 sem. hrs.)

Requirements for the B.S. Degree:

1. **Geology** (40-42 sem. hrs.)
   GLY 2010 (4) GLY 3220 (3) GLY 4200 (3)
   GLY 2100 (4) GLY 3400 (4) GLY 4550 (4)
   GLY 3200 (3) GLY 3610 (4)
   GLY-prefixed, structured electives (6)
   A minimum of 2 sem. hrs. from:
   GLY 4920 (1)
   Field Geology requirement: GLY 4791 (3) and GLY 4792 (3).
2. **Supporting Courses** (22-26 sem. hrs.)
   CHM 2045 (3) CHM 2046 (3)
   CHM 2045L (1) CHM 2046L (1)
   MAC 3281 (3) / MAC 3282 (3) or MAC 3311 (4) / MAC 3312 (4)
   PHY 3048 (3) PHY 3049 (3)
   PHY 3048L (1) PHY 3049L (1)
3. **General Distribution Courses** (40 sem. hrs. excluding waivers).
   The student is required to satisfy the General Distribution requirements of Natural Sciences.
4. **Liberal Education Electives**
   The student is required to complete the liberal education electives of Natural Sciences.
5. **Free Electives** (Including Distribution Waivers) 19-25 sem. hrs.
   The student will choose, in consultation with his/her Geology adviser, such courses in 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 CHM 2045 CHM 2046
   GLY 2100 CHM 2045L CHM 2046L
   in the freshman year and to seek curriculum counseling with a Geology advisor.

Requirements for the Minor in Geology

A minor in geology consists of 16 credit hours and must include GLY 2010 and 2100. 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)

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:
MAN 3025 (3) GEY 3601 (3) GEY 4328 (3)
MAN 3240 (3) GEY 4360 (3) GEY 4329 (3)
MAN 3301 (3) GEY 4640 (3) GEY 4945 (6)
BUL 3112 (3) GEY 4327 (3)

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 human services prerequisite can be satisfied either by a student's having taken HUS 3001 or an equivalent course at another institution or by having had suitable work experience in the human services. 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 Human Services

An undergraduate minor in Human Services is available for students interested in pursuing careers in fields such as social welfare, health care and mental health care, rehabilitation, and corrections. This minor may be taken in conjunction with any undergraduate major but it should be particularly beneficial to persons who are majoring in such disciplines as anthropology, criminal justice, nursing, political science, psychology, social work, and sociology. The Human Services minor is coordinated by the Department of Gerontology. Requirements for the minor are a total of 15 hours of the following upper-level courses:
HUS 3001 HUS 4100 HUS 5325
HUS 4700 HUS 5505 HUS 4020

Center for Applied Gerontology

The activities of the Center for Applied Gerontology include research on aging, program evaluation, short-term training of agency personnel and other activities intended to complement the educational program in gerontology.

■ 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. INR 3080 and INR 3082 are linked in that they may share common textbooks. Students may take the two courses simultaneously, but must not enroll in INR 3082 without having previously completed INR 3080.

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 INT 4900 (1-3) and INT 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 adviser, 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. These include the pre-professional plan in political science. 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 six 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.)

POT 3003 (3) POS 2041 (3) POS 3713 (3)
CPO 3002 (3) or INR 3002 (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**		
	POS 5734 (3)	POT 4204 (3)	POT 3013 (3)
	POT 5626 (3)	POT 4054 (3)	POT 4064 (3)
Field II	**Comparative Government and Politics**		
	CPO 4034 (3)	CPO 5934 (3)	CPO 4930 (3)
Field III	**International Relations**		
	INR 3102 (3)	INR 4403 (3)	INR 4035 (3)
	INR 4502 (3)	INR 4334 (3)	INR 5086 (3)
Field IV	**American National and State Governments**		
	POS 2112 (3)	POS 4204 (3)	POS 3173 (3)
	POS 4413 (3)	POS 3182 (3)	POS 4424 (3)
	POS 3273 (3)	POS 5094 (3)	POS 3453 (3)
Field V	**Urban Government and Politics**		
	POS 3142 (3)	POS 5155 (3)	POS 3145 (3)
	PUP 4534 (3)	POS 4165 (3)	URP 4050 (3)
Field VI	**Public Policy**		
	INR 3102 (3)	PUP 5607 (3)	INR 4334 (3)
	URP 4050 (3)	POS 3145 (3)	PUP 4534 (3)

Field VII **Law and Politics**

INR 4403 (3)	POS 4614 (3)	POS 3283 (3)
POS 4624 (3)	POS 3691 (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).

Pre-Professional Plan in Political Science

This plan is designed for students seeking an intensive undergraduate concentration in political science. Typically, students electing this plan will be oriented towards graduate work in political science or other social sciences. A minimum of 36 credit hours is required.

Students must take six credit hours of required courses:

POS 2041 (3) POS 3713 (3)

Ten additional courses in political science (30 cr. hrs.) must be taken, of which at least seven must be above the 3000 level. Concentration within fields will be encouraged.

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 adviser.

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 Policy Economy
INR 4403	International Law
INR 4502	International Organizations
CPO 5934	Issues 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 4202	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	Administrative 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 adviser as early in their undergraduate program as possible.

■ HUMANITIES (HUM)

The Humanities Program is an interdisciplinary curriculum that deals with the visual arts, music, literature and the culture from which they emerge. Secondary sources are used sparingly; students are encouraged to make a vigorous, personal response to specific works of art, literature, and music.

Requirements for the B.A. Degree:

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.

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 3403 (4) ASH 3404(4)

Int'l Studies:
ASN 3012 (3) ASN 3014 (3) ISS 3930 (4)

Political Science:
CPO 4930 (3) CPO 5934 (3) INR 5086 (3)

■ INTERDISCIPLINARY NATURAL SCIENCES (INS)

The Bachelor of Arts in the Interdisciplinary Natural Sciences major is designed for majors seeking a broad program in 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 Natural Science General Requirements for Degree except that item 1 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 a major in 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 a major in Natural Sciences. 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) and one of the following:
BOT 2010C (4) ZOO 2010C (4) MCB 3030 (4)
CHM 2045 (3) CHM 2046(3)
CHM 2045L (1) CHM 2046L(1)
MAC 3233(4) / MAC 3234(4) or MAC 3311(4) / MAC 3312 (4) or MAC 3281(3) / MAC 3282 (4)

PHY 3053 / PHY 3053L / PHY 3054 / PHY 3054L or PHY 3048 / PHY 3048L / PHY 3049 / PHY 3049L

The student must earn a grade of "C" or better in the major concentration and in each supporting course.

■ INTERDISCIPLINARY SOCIAL SCIENCES (AFA/ISS/WST)

The Division of Interdisciplinary Social Sciences offers three academic majors: the College major (Interdisciplinary Social Sciences), and the majors in African and Afro-American Studies, and Women's Studies. It offers a minor in Women's Studies, a minor in African and Afro-American Studies, and a series of interdisciplinary social science core courses. Requirements for the Interdisciplinary Social Science major, the African and Afro-American Studies major and minor, and the major and minor in Women's Studies are described below.

AFRICAN AND AFRO-AMERICAN STUDIES (AFA)

The African and Afro-American Studies Program provides a quality undergraduate education leading to a Bachelor of Arts degree in African and Afro-American Studies. Essentially it is a service program which provides opportunities for all students to broaden the bases of their knowledge of the entire human experience and intercultural understanding so essential to living in a multi-racial society and a world that has become a global village. It provides a new horizon in liberal education that seeks reunification of the knowledge of human experience and strikes at the narrowness and ethnocentrism of the traditional disciplines which tended to contribute much to race prejudice and misunderstanding.

In the interest of general education the program provides a basic and broad knowledge about Africa and peoples of African descent from prehistoric times to the turbulent present. Part of its mission is to assist black students to achieve a more dignifying identity and fuller participation in the mainstream of their society and nation. It attempts to help them to develop a greater awareness of their heritage and to provide educational and research opportunities necessary for the acquisition and understanding of political and economic realities and tools that must enable black people and other minorities to become effective determinants of their own political and economic life. To the non-black student the program provides an opportunity to acquire additional perspectives from which to view, analyze and deal with contemporary social issues and political problems.

Admission to the African and Afro-American Studies major is open to all students who have been duly admitted to the University of South Florida by the Office of Admissions and who file necessary papers in the Office of the Coordinator of Undergraduate Student Affairs, College of Arts and Sciences, to declare a major in the field. All of the program's courses are open to all other students - regular and special - of the University.

Requirements for the B.A. Degree:

The major in African and Afro-American 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 (6 cr. Hrs.)

AFA 4150 (3)	PHM 4120 (3)

Suggested Elective Courses (15 cr. hrs.)

AFA 4331 (3)	INR 4254 (3)	PUP 3313 (3)
HUM 3420 (3)	AFA 4900 (2-3)	AFA 4931 (1-3)
CPO 4204 (3)	CPO 4244 (3)	CPO 4254 (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 African and Afro-American Studies:

African and Afro-American Studies 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:

African and Afro-American Studies Option 1 (Minimum of 18 hours):

Required Core Courses (9 hours)

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

Electives (9 hours) selected from:

AFA 4150 (3)	CPO 4204 (3)	INR 4254 (3)
AFA 4931 (1-3)	CPO 4254 (3)	PUP 3313(3)
HUM 3420 (3)		

African and Afro-American Studies Option II (Minimum of 18 hours):

Required Core Courses (9 hours)

AFA 2001 (3)	AMH 3571 (3)	AMH 3572 (3)

Electives (9 hours) selected from:

AFA 4150 (3)	PHM 4120 (3)
AFA 4331 (3)	PUP 3313 (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)	CPO 4254 (3)	
AFS 4321 (3)	HUM 3420 (3)	

INTERDISCIPLINARY SOCIAL SCIENCE MAJOR (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. 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 & Disorder 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. 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.
3. it is suggested that the student work out a program of study during 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. 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.

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, 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.

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 33 hours, distributed as follows:

1. Required Core Courses (18 hours)
   WST 3010 SOP 3742 WST 4310
   AFA 4335 WST 4935
   STA 3122, or equivalent
2. (3 hours)
   Either WST 3275 or ANT 4302
3. (3 hours)
   Either REL 3145 or POS 4693 or WST 4320
4. (9 hours)

Three electives chosen from the remaining courses listed under Womens Studies, including those not taken under 2 and 3 above.

Those electing to major in Women's Studies should consult the Program Coordinator 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 five courses:

WST 3010

Two other Women's Studies courses at the 3000 level.

Two Women's Studies courses at the 4000 level, no more than three credits of which may be satisfied by WST 4900 (Directed Readings) or 4910 (Directed Research).

Students minoring in Women's Studies must be certified by the Program Coordinator.

■ LIBERAL STUDIES (ALA)

A moratorium has been placed on the Liberal Studies Program pending revisions.

■ LINGUISTICS (LIN/ESL)

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 4701 (3)
LIN 4710 (3) PHI 3100 (4) SPC 3210 (3)

■ MASS COMMUNICATIONS (COM)

The Mass Communications department, accredited by the Accrediting Council on Education for Journalism in News-Editorial, Public Relations, Advertising, and Broadcasting, 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, broadcasting, film, 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 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). Transfer students who have taken a course equivalent to MMC 3100 may waive MMC 3100 by achieving a score of 70 percent or higher on the Diagnostic Test. 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.

A required core curriculum, "Writing for the Mass Media" (MMC 3100) and "Mass Communications and Society" (MMC 3602), and a balance between required and recommended courses in the major sequence offer students a guided set of essential courses plus some options of their own choosing. Majors will take at least 50 hours of electives outside the department in addition to the 40-hour University distribution requirement. Students will be encouraged to use a substantial number of their electives in courses which support the major.

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 from the department. It is suggested that the nine hours include the equivalent of the departmental core curriculum and one sequence introduction course. Approval by an appropriate adviser 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

Sequence Selections

1. ADVERTISING Requirements

ADV 3000 (3)	MMC 4203 (3)	ADV 3101 (3)
ADV 3300 (3)	ADV 4800 (3)	
MMC 4420 (3)	RTV 3225 (1) or	ADV 4940 (1)

Selective Requirements (9 hrs. required)

ADV 3002 (3)	ADV 3103 (3)	ADV 3700 (3)
ADV 4940 (1)	JOU 3100 (3)	JOU 4206 (3)
MMC 4123 (3)	MMC 4200 (3)	MMC 4945 (3)
PGY 3610 (3)	PUR 3000 (3)	PUR 4601 (3)
RTV 3000 (3)	RTV 3225 (1)	VIC 3000 (3)

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. BROADCASTING Requirements

News Option

MMC 4200 (3)	MMC 4420 (3)	RTV 3000 (3)
RTV 3300 (4)	RTV 4301 (3)	RTV 4700 (3)

Selective Requirements (9 hrs. required)

FIL 3004 (3)	JOU 4104 (3)	MMC 4123 (3)
MMC 4945 (3)	RTV 3941 (1)	RTV 3210 (3)
RTV 4220 (3)	RTV 4942 (1)	

Programming and Production Option

RTV 3000 (3)	RTV 3300 (4)	RTV 4700 (3)
RTV 3100 (3)	RTV 4220 (3)	MMC 4420 (3)
RTV 4500 (3)		

Selective Requirements (6 hrs. required)

ADV 3000 (3)	ADV 3103 (3)	FIL 3004 (3)
MMC 4123 (3)	MMC 4945 (3)	RTV 3210 (3)
RTV 3230 (3)	RTV 3941 (1)	RTV 4320 (3)
RTV 4301 (3)	RTV 4942 (1)	

Note: For Broadcast News Option majors, the prerequisites for RTV 4700 are RTV 3000, RTV 3300, MMC 4200, POS 2112 or POS 3142, and Senior Standing. For Broadcast Programming and Production Option majors, the prerequisites for RTV 4700 are RTV 3000, RTV 4500, RTV 3100 or RTV 3300, and Senior Standing.

Note: The following courses are required outside the department to complete sequence requirements: for Broadcast News: ORI 3000, PHI 1103, POS 2041, POS 2112, and SPC 2023 or SPC 2050. For Broadcast Programming: ENC 3310 or CRW 2100. See specific courses for prerequisites.

3. 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)

ADV 3000 (3)	MMC 4203 (3)	PGY 3610 (3)
JOU 3300 (3)	JOU 4206 (3)	PGY 3620 (3)
JOU 3306 (3)	RTV 3225 (1)	JOU 3940 (1)
MMC 4420 (3)	VIC 3000 (3)	JOU 4941 (1)
MMC 4945 (3)		

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)

ADV 3000 (3)	JOU 4104 (3)	PGY 3610 (3)
ADV 3002 (3)	JOU 4941 (1)	PUR 3000 (3)
JOU 3006 (3)	JOU 4944 (1)	RTV 3225 (1)
JOU 3306 (3)	MMC 4945 (3)	VIC 3000 (3)

Note: The following courses are required outside the department to complete sequence requirements: ECO 2013 or ECO 2023, PHI 1103, POS 2041, POS 3142 or POS 2112, and SYG 3010. For Magazine sequence, CRW 2100 is also required. See specific courses for prerequisites.

4. 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)

ADV 3101 (3)	JOU 3300 (3)	PUR 4700 (1)
ADV 3002 (3)	MMC 4200 (3)	RTV 3000 (3)
ADV 3300 (3)	MMC 4936 (3)	MMC 4945 (3)
RTV 3225 (1)	JOU 3101 (3)	PGY 3610 (3)
RTV 3300 (3)		

Note: The following courses are required outside the department to complete sequence requirements: ECO 2013, ECO 2023, MAN 3025, POS 2041, and POS 2112 or POS 3142.

5. VISUAL COMMUNICATIONS Requirements

ADV 3002 (3)	FIL 3004 (3)	MMC 4200 (3)
RTV 3225 (1)	JOU 3100 (3)	PGY 3610 (3)
VIC 3000 (3)	MMC 4123 (3)	

Selective Requirements (6 hrs. required)

ADV 3000 (3)	JOU 3300 (3)	PGY 4110C (3)
FIL 3200 (3)	JOU 4208 (3)	PUR 3000 (3)
FIL 3201 (3)	MMC 4910 (1-3)	RTV 3000 (3)
FIL 4207 (3)	MMC 4936 (3)	RTV 3100 (3)
FIL 4300 (3)	MMC 4420 (3)	RTV 4220 (3)
JOU 3101 (3)	MMC 4945 (3)	RTV 4301 (1)
JOU 4206 (3)	PGY 3620 (3)	VIC 3943 (1)

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 his 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 33 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.

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 (2)
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)
MAD 5101 (3)	MAA 5405-5406 (6)
MAD 5305 (3)	MAS 4124-MAD 4401 (6)
MAP 5205 (3)	MAP 5316-5317 (6)
MAS 5107 (3)	MAP 5407-5345 (6)
MAS 5215 (3)	MAS 5311-5312 (6)
MHF 4102 (3)	MTG 5316-5317 (6)
MHF 5302 (3)	STA 4442-4321 (6)
MTG 4212 (4)	STA 5206 (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	STA 3122
ECO 4402	PHY 3020	GEB 2111	

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 majors 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. 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. This talent requires specialized training and a baccalaureate degree is essential preparation 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. A student electing to major in Medical Technology will spend the first three years of the program on the campus of the University of South Florida; the fourth year (12 months) will be 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.

During the first three years, the medical technology student will complete the liberal arts and basic science requirements for entrance into the fourth year of the program for clinical training. To remain in good standing as a Medical Technology major during this period, a reasonable grade point average, determined by the College of Arts and Sciences, must be maintained. To be eligible for entrance into the program's fourth year, the student must have completed not less than 90 credit hours of work (excluding physical education courses). Of these hours, at least 20 credit hours must be Natural Science courses from the College of Arts and Sciences at the University of South Florida (in courses approved by the Director of the Medical Technology Program). The following courses must be included in the three years of work which precedes the fourth year of clinical training.

1. Biological Sciences
   A minimum of 16 hours is required with at least one course in microbiology and one course in immunology. Physiology APB 3190 or PCB 4743C) and Determinative Bacteriology (MCB 4115) are strongly recommended.
2. Chemistry
   A minimum of 18 hours is required including one semester of Elementary Organic Chemistry (CHM 3200, CHM 3210L; CHM

3210 AND 3211 may be substituted for CHM 3200) and one semester of Elementary Analytical Chemistry (CHM 3120C). Biochemistry (BCH 3023) and Clinical Chemistry (CHS 4300) are strongly recommended.

3. Physics
   A minimum of 8 hours (one full-year majors-type course) is required.
4. Mathematics
   A minimum of 6 hours including at least one course at the level of College Algebra (MAC 2102) or Elementary Calculus I (MAC 3233) is required. Statistics (STA 3122 or STA 3023) is required.
5. General Distribution Requirements
   Courses satisfying the general distribution requirements of the College of Arts and Sciences.
6. Courses in non-science fields to insure a broad background.

Upon successful completion of this curriculum, recommendation by the College, 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, one 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.

■ 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
PHI 3440 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 3440 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 Ethics
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 pont 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 such an opportunity. Students should consult with the Physics Graduate Adviser for details.

Requirements for the Baccalaureate Degrees:

1. *Physics Courses*

B.A. PHYSICS (PHY) (34 cr. hrs.)

PHY 3048[1] (3)	PHY3221 (3)	PHY 4324C (4)
PHY3048L[1] (1)	PHY 3323C (4)	PHY 4823L (2)
PHY 3049[1] (3)	PHY 3822L (2)	PHY 4910 (1)
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)	PH Y 3822L (2)	PHY 4910 (1)
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)	

[1]The sequence PHZ 3101 (2), PHY 2053 (3), PHY 2053L (1), PHY 2054 (3), and PHY 2054L (1) may be substituted for the sequence indicated.

[2]Substitutions permitted subject to approval of adviser.

2. *Supporting Courses in the Natural Sciences*

B.A. and B.S. PHYSICS (20 cr. hrs.)

CHM 2045 (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)	

[3]The 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 Education Elective*
The student must satisfy 16 hours of liberal education electives as described in item 3 of the graduation requirements of the College of Arts and Sciences.
5. *Free Electives*
(Including general distribution waivers) to complete a 120 hour program.

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, 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 introductory 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:

1. 2000/3000 Level Requirement (6 semester hours)
Successful completion of: PSY 3044 (3 semester hours) and one of the following:
INP 3101 PSY 3022 SOP 3742
PSY 2012
2. Methods Course Requirement (7 semester hours)
Successful completion of: PSY 3213 and one of the following:
CLP 4433 PSY 4205
or another methods course approved by the undergraduate advisor in Psychology.
3. 4000 Level Requirement (21 semester hours)
Successful completion of 7 additional 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 course may count toward the major:
PSY 4913 Directed Research

PSY 4205 (3) is recommended for students planning graduate training. Functional mathematics and biological science are 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 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 Adviser 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 completion of 43 hours in Psychology including PSY 4932 (4) and PSY 4970 (8). See the Psychology Department Undergraduate Adviser for details of the program and 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 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 minority 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 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 adviser.

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 adviser 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 hrs.
REL 3611	History of Judaism I	3 hrs.
REL 3612	History of Judaism II	3 hrs.
REL 3613	Modern Judaism	2 hrs.
REL 4221	Bible I/Old Testament Law and History	4 hrs.
REL 4224	Bible II/Prophets and Writings	4 hrs.
TOTAL		19 hrs.

ELECTIVES (select 16 hrs.)

ANT 4367	The Middle East	3 hrs.
HEB 1120	Basic Hebrew I	4 hrs.
HEB 1121	Basic Hebrew II	4 hrs.
LIT 3374	The Bible as Literature	3 hrs.
LIT 4930	Hasidic Literature to Yiddish Theater	4 hrs.
LIT 4930	Modern European & American Jewish Literature	4 hrs.
REL 3280	Biblical Archaeology	3 hrs.
REL 3600	Introduction to Judaism	3 hrs.
REL 3900	Directed Readings	1-4 hrs.
REL 4910	Undergraduate Research	1-4 hrs.
REL 4931	Seminar in Religion	3 hrs.

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 hrs.
REL	4931	Seminar in Religion	3 hrs.
	or		
REL	4939	The Development of Religious Studies	3 hrs.

one course in western religion

SOUTH ASIAN RELIGIONS CORE (3 hrs):

REL	3330	Religions of India	3 hrs.

ELECTIVES (Minimum of 16 hrs.):

REL	4333	Hinduism	4 hrs.
REL	4343	Buddhism in India	4 hrs.
REL	4344	Buddhism in Tibet	4 hrs.
REL	3900	Directed Studies	1-4 hrs.
REL	4910	Undergraduate Research	1-4 hrs.

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 India	4 hrs.
HUM	3271	Culture East & West - I	4 hrs.
HUM	3272	Culture East & West - II	4 hrs.
ARH	4530	Oriental Art	4 hrs.

and other courses or study abroad programs as approved by the Director of South Asian Studies.

SOCIAL SCIENCE REQUIREMENT (Minimum of 6 hrs.)

GEO	3703	Geography of Asia	4 hrs.
ASH	3501	History of India	4 hrs.
CPO	4930	Politics of South Asia	3 hrs.

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 Department 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 department 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 Department of Social Work. All pre-majors will be assigned to an advisor within the Department 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 Department of Social Work at 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 complete:

1. One course in each of the following cognate areas -
   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. The following Human Services course -
   - The Life Cycle

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. 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. Though we do not require an adviser, feeling students to be capable of making reasonable choices, we recommend the use of an adviser to find the best set of courses fitting one's personal interests.

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. 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 Interarea 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 predominently 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.

COLLEGE OF BUSINESS ADMINISTRATION

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 availablity 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 a 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:

1. **Non-Business** — Semester Hours
   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	3112	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)
Finance:		
Any course offered by the Finance Department numbered 3000 or above. Except FIN 3100 and FIN 3105.		(3)
Management:		
MAN 3240	Organizational Behavioral 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:		
ACC 3012	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 3210	Technical Writing
ENC 3213	Professional Writing
ENC 3310	Expository Writing
GEB 3211	Business Communications
	(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 controlling unemployment, inflation, pollution, and crime. The department offers both major and minor programs. Elective courses offered in industrial organization, labor economics, international trade, public finance, monetary economics, econometrics, history of economic thought, economic development, comparative economic systems, law and economics, as well as other areas, allow students to tailor their study towards careers in business, teaching, or government service. The economics curriculum also provides excellent preparation for those students seeking graduate or professional degrees in business, law, or social sciences. The basic courses and the elective offerings allow students in other disciplines to complement their studies with the skills and insights gained through understanding how the economy operates.

Students interested in majoring or minoring in economics should contact the undergraduate academic adviser 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.

Required Economics Courses:

ECO 3203	Intermediate Income & Monetary Analysis	(3)
ECO 4303	History of Economic Thought	(3)
	Additional upper-level economics courses	(12)

At least 9 of the 12 hours of electives must be in courses for which either ECO 3101 or ECO 3203 is a prerequisite.

Total (18-24)

No more than 3 hours of credit can be applied toward a major from ECO 4905 and/or ECO 4914.

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 additonal Finance electives from the following Approved list.	(6)
	Total	(18-24)

Approved List:

FIN 3604 International Finance
FIN 4303 Financial Institutions
FIN 4443 Financial Policies and Strategies
FIN 4514 Advanced Investment Analysis and Management
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.

Required MIS Courses:

ISM 3111	Systems Analysis	(3)
ISM 3112	Systems Design	(3)
ISM 4300	Managing the Information System Function	(3)

Approved MIS Electives (9)
Total (18-24)

Required Non-business Courses:
one of the following:
COM 3110 Communication for Business and the Professions
SPC 2023 Fundamentals of Speech Communication
ENC 3210 Technical Writing
ENC 3213 Professional Writing
ENC 3310 Expository Writing
GEB 3211 Business Communications (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 3111 Systems Analysis (3)
   ISM 3112 Systems Design (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 3210 Technical Writing
ENC 3213 Professional Writing
ENC 3310 Expository Writing
GEB 3211 Business Communications (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 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 3103 Professional Selling
MAR 4453 Industrial Marketing
MAR 4503 Buyer Behavior

Promotion (Industrial and/or Consumer)

MAR 4333 Promotion Management
MAR 4503 Buyer Behavior
MAR 4933 Promotion Campaigns
MAR 3103 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 3103 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.

Sarasota
Accounting and General Business Administration.

Fort Myers
Accounting and General Business Administration.

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 Adminstration 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 Student 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

The College of Education places an emphasis on students learning what is relevant for the world today and on their getting deeply involved in their own 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. Promising programs are 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

The College of Education administers the admission policies to all teacher programs of the University. 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 840) 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 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 your 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. Time, sequence, and location of experience may vary among the programs. (Refer to specific program for further information.)

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 before desired semester according to schedule below.
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.
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 prior to the term in which experience is desired, except when the program has specific tracks and dates for applications to be submitted. The applications may be obtained in the Office of Clinical Education.

Applications for Fall Semester are due the preceding January 30.

Applications for Spring Semester are due the preceding September 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. A student 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 adviser. 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 pilot program 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 "Beginning Teacher 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		(MEI)
Vocal		(MEV)
General		(MEG)
Physical Education	Professional Physical Education	
Elementary		(PTE)
Secondary		(PTS)
Wellness		(PTW)
Science Education	Secondary Education	
Biology		(NSB)
Chemistry		(NSC)
Physics		(NSP)
Social Science Education	Secondary Education	(SSE)
Specific Learning Disabilities Education	Special Education	(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 amd EEC majors, 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.
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) or	(4)
EDF 3214	Human Development and Learning (for all other programs)	(3)
EDF 3604	Social Foundations of Education or	(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	(2)
	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 or Foreign Language 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 Education. Certification programs leading to the Bachelor of Science (B.S.) degree are: Business and Office Education, Distributive and Marketing Education, and Industrial-Technical 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 competency examinations. Prospective majors should schedule these examinations as early as possible and no later than the first semester of the junior year. The competency examinations may be repeated.

Two semesters of full-time residency must be planned with an adviser and sequenced in the senior year. Special prerequisites are required for BTE 4360 and BTE 4364, which are taken concurrently in the semester immediately prior to the supervised internship.

Specialization Requirements (43 cr. hrs.):

Accounting (2 courses)
Economics (2 courses)
Typewriting Competencies (Theory 50 CWPM)
Shorthand Competencies (Theory 80 WPM)
Administrative Office Management
Business Communications
Business Machines Competencies
Principles of Management
Office Occupations Procedures
Introduction to Computers
Office Information Processing
Prin. of Vocational Education
Electives (6 cr. hrs. approved by advisor
Business Law

■ 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 2100	FIN 2105	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. Students will enroll for a minimum of two (2) semester hours the first semester they enter the program and for at least one (1) semester hour each subsequent semester, not to exceed a total of five (5) hours. Students may not enroll in more than two (2) credit hours of field experience in any one semester. The five (5) credit hours of field experience will be used for individual and group assignments and projects 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.

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: Twelve (16) semester hours.

EVT 4065 EVT 4165 *EIV 4210 EVT 4562

*Another course may be substituted with adviser's approval.

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 Teachers 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 sytems.

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: Twelve (16-20) semester hours including;

EVT 4065 EIV 4210 EVT 4165

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 the Elementary/Early Childhood program 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 program of studies to be eligible for certification in either Elementary or Elementary-Early Childhood Education. The 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. 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. One of these part-time internships is scheduled to be completed in the first semester of the student's enrollment. A second half-day in-school experience occurs during the senior year when the majority of coursework has been completed just prior to enrollment in the full-day internship. 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 internship, students can have no more than five (5) courses remaining from the following courses, only one (1) of which can be taken with the final internship: EDF 4430, EEX 4070, EME 4402, ARE 4313, HLP 4722 and MUE 4210.

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 internship courses beginning with the student's first semester of program enrollment. The sequence of internships for the Elementary and Elementary-Early Childhood Certification Program is as follows:

First Semester of Program Enrollment	EDE 4941-Childhood Education Internship Level I (4 semester hours)
Fourth Semester of Enrollment or Consent of Department Chairperson	EDE 4942-Childhood Education Internship Level II (6 semester hours)
Full-Day Internship	EDE 4940-Internship (10 semester hours) EDE 4936-Senior Seminar (2 semester hours) (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.

■ 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 ages 3-8, should pursue a program leading to eligibility for Florida certification both in early childhood 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.

*Due to changes in the State's teacher certification requirements, students are not currently being admitted to this program.

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 3110	ART 3510
ART 2203C	ART 3701	ARH 4450

One of the following: ART 3420 or ART 3470
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 4416
   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 LIN 4100/5107
   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 4335, 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 available for Spanish, French and German.

1. Foreign language (30 credit hours)

grammar, conversation, composition	12
literature	6
culture	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
   Spring Term: FLE 4333 and FLE 4334

■ 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: 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. General Distribution and Professional Education requirements are listed under Teacher Education Program.

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 3014 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.

School of Library and Information Science

Even though degree-oriented undergraduate study is not offered in the School of 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 and media centers.

The School of 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.

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. This course does not fulfill a requirement in the music major curriculum. All transfer students are required to take a theory placement test and required to enter at the appropriate level. 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 during each of the semesters of study at the University (the specific requirements for satisfactory attendance are 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 hrs.)
   MUE 2090 (2) MUE 3450 (1)* MUE 4331 (3)
   MUE 3421 (1) MUE 3451 (1) MUE 4321 (2)
   MUE 3422 (1) MUE 3460 (1)** MUE 4332 (3)
   MUE 3423 (1) MUE 3461 (1) MUE 4480 (2)
   One hour courses must be repeated to achieve 20 cr. hrs.
   *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 3001 (Recital Attendance).
   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 Requirements
   Art, Dance, Theatre (min. 3 cr. hrs. to be selected from one or more of the other departments in the College of Fine Arts)
2. Vocal Specialization - (72 cr. hrs.)
   Music Education courses (16 cr. hrs.)
   MUE 2090 (2) MUE 3421(1) MUE 3422 (1)
   MUE 3423 (1)
   MUE 3450(1)* or MUE 3451(1)*

MUE 3460(1)* or MUE 3461(1)*
MUE 4311 (3) MUE 4352 (2) MUE 4331(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. with a minimum of 4 hours at the 3000 level and concurrent registration in MUS 3001 (Recital Attendance).
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 in the College of Fine Arts)

3. General Music Specialization (72 cr. hrs.)

Music Education courses (16 cr. hrs.)

MUE 3460(1)* or MUE 3461(1)*
MUE 3450(1)* or MUE 3451(1)*
MUE 2090(2) MUE 4352(2) MUE 3421(2)
MUE 4311(3) MUE 3422(1) MUE 3423(1)
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 3001 (Recital Attendance).
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 requirements
Art, Dance, Theatre (min. 3 cr. hrs. to be selected from one or more of the other departments in the College of Fine Arts)

Department of Physical Education

The Department of Physical Education teaches a variety of Elective Physical Education courses and conducts a Professional Physical Education Program.

■ ELECTIVE PHYSICAL EDUCATION PROGRAM

Elective Physical Education offerings in the College of Education are designed to provide opportunities for all students in developing desired skills and gaining 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 or personal development. Human movement behavior and response 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 requisites and uses 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 residing within the State of Florida must participate in a selective admissions procedure. Out-of-state students should contact the Department Chairperson for admission information. 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:

Chairperson
Department of Physical Education
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 educat ion 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
   - EEX 3640 Adapted Physical Education
   - PET 3031 Motor Development & Assessment
   - PET 3421 Curriculuim and Instruction in Physical Education
   - PET 3441 Instructional Design & Content: Middle School 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 Instruction 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
   - HUN 3201 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 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.

- PEM 2116 Figure Development
- PEM 2131 Weight Training
- PEM 2141 Aerobics (Jogging)
- PEM 2930 Aerobic Dance
- PEM 2930 Cycling
- PEM 2930 Advanced Jogging
- PEM 2930 Triathlon
- PEM 2930 Swim Aerobics
- PEM 3931 Teaching Aerobic 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 3542	EDF 4905	EDF 5672
EDF 3210	EDF 3604	EDF 4909	IDS 3115
EDF 3214	EDF 3810	EDF 5136	
EDF 3228	EDF 4131	EDF 5285	

Department of Special Education

The Department of Special Education undergraduate programmatic structure is designed to prepare personnel to plan and implement education programs for students requiring specialized education services. Areas of training include behavior disorders, mental retardation, and specific learning disabilities. Depending on the training entry level of the candidate and the specific program specialty selected, the undergraduate training program content offers basic coursework and experiences leading to state certification and competencies to design and implement age appropriate programs for exceptional students in public schools and private agencies. All students will be required to complete a concentration of 15 hours in one of the following areas: English, Mathematics, Science, Social Science, or Foreign Language.

There are basic entrance requirements at this level of the program. When the candidate has met the requirements for his/her program admission, a departmental adviser will be assigned. Field based experiences are a significant component of all programs. Practicum and internship experiences are included throughout each training program in educational environments located in those districts proximal to a campus on which there are resident faculty. Transportation to practicum and internship sites must be furnished by the students. The professional development of degree candidates is stressed. Membership and active participation in student professional groups such as the Student Council for Exceptional Children (SCEC) is expected of all baccalaureate degree candidates. The prospective student is encouraged to contact the department for any program changes.

■ BEHAVIOR DISORDERS

Requirements for the B.S. Degree (EED)

This program of study is designed to prepare undergraduate students to become competent and certified teachers of emotionally handicapped students in a variety of educational settings.

General Distribution and Professional Education requirements are listed under Teacher Education Program.

Teaching Specialization: (33 hours)

EEX 3010	EEX 4221	EEX 4243
EED 4011	EED 4321	MAE 4310
LAE 4414	RED 4511	RED 4310

One of the following:

EEC 4706 SPA 4000

One of the following:

ARE 4313 MUE 4210
SCE 4310 SSE 4313

■ MENTAL RETARDATION

Requirements for the B.S. Degree (EMR):

This program of study is designed to prepare undergraduate students to become competent and certified teachers of mentally handicapped persons in a variety of settings.

General Distribution and Professional Education requirements are listed under Teacher Education Program.

Teaching Specialization: (36 hours):

EED 4011	EEX 4243	EMR 4310	RED 4310
EEX 3010	EMR 3011	MAE 4310	
EEX 4221	EMR 4230	LAE 4414	

One of the following:

ARE 4313 MUE 4210 SSE 4313
SCE 4310

One of the following:

EEC 4706 SPA 4000

■ SPECIFIC LEARNING DISABILITIES

Requirements for the B.S. Degree (ELD):

This course of study is designed to prepare the student as a competent learning disabilities teacher.

General Distribution and Professional Education requirements are listed under Teacher Education Program.

Teaching Specialization: (39 hours):

EED 4011	EEX 4243	MAE 4310	RED 4310
EEX 3010	ELD 4011	MAE 4510	RED 4511
EEX 4221	ELD 4110	LAE 4414	

One of the following:

ARE 4313	MUE 4210	SSE 4313
SCE 4310		

One of the following:

EEC 4706	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 three officers (President, Vice-President, Secretary-Treasurer) and eight Student Government Senators. Elections are held annually in November and all education majors are eligible to vote for all officers.

C.E.S.C. activities enhance members' professional skills, communication skills and organization skills. Any student majoring in education with a minimum GPA of 2.0, is eligible to participate in C.E.S.C.

Association for Childhood Education International

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 and other countries.

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.

Student 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. The participation in the activities of Collegiate DECA is required of undergraduate majors and is encouraged for graduate students.

Minority Organization of Students in Education

The Minority Organization of Students in Education is organized to provide experience and opportunities that will facilitate the educational and professional growth of its members.

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

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)
Bachelor of Engineering Technology (B.E.T.)
[Discontinued August 1993]

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 or a technologist'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
Engineering Technology	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 students 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 which 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/commu-

nity 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 of Engineering

1. Students should complete and submit an Engineering Admissions Application to the College of Engineering, Advising Office.
   a. Freshmen and Sophomores must submit copies of high school transcripts, SAT and ACT test scores to the College of Engineering, Advising Office. This is in addition to records requested by the University's Admissions Office.
   b. 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.
   c. Applicants whose native language is other than English must submit TOEFL scores to the College of Engineering. The minimum TOEFL score must be 550.
2. 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.
3. Credentials will be held for one year. If application is not updated within that year, credentials must be re-submitted.

Engineering Admission Requirements

1. Freshmen:
   a. Test Scores:
      SAT - composite of 1050 minimum with a minimum quantitative of 550.
      ACT - composite of 25 minimum and mathematics of 25 minimum.
   b. High School Mathematics: Should include sufficient algebra and trigonometry to enter Engineering Calculus I. Math Department Placement Test must be passed to enter Calculus I.
   c. High School Grade Point Average of 2.5/4.0.
2. Transfer Students:
   Transfer students 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:

1. Completion of English, Calculus, Differential Equations, Physics and Chemistry requirements with a grade of "C" or better in each required course.
2. Satisfactory completion of EGN 1002 - Engineering Orientation.
3. 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 3313 - 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:

1. Completion of:
   EGN 3373 - Introduction to Electrical Systems I
   EGN 3443 - Engineering Statistics I
   COP 3002 & COP 3000L - Intro to Computer Science and Lab
   EGN 3313 - Statics
   EGN 3343 - Thermodynamics I
   with a minimum of "C" on the first attempt.
2. The minimum requirements for admission to the Computer Science program offered by the Computer Science and Engineering Department are completion of sections 1 and 2 above and completion of
   COT 3001 - 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:

1. Admission to the College of Engineering
2. 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.
3. 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 2045 - Chemistry & Lab 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 a curriculum 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. The Department of Civil Engineering and Mechanics has a policy of mandatory academic advising of students for each school term.

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.**

*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 course work 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 Certification 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.

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, 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, TIE 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, automatic controls, 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 cumulative GPA of 2.2 is required in all departmental courses for the awarding of a B.S.M.E. degree.

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 (Social Sciences, Humanities, Communications)	30 Sem. Hrs.
Mathematics, Chemistry and Physics (Minimum)	35 Sem. Hrs.
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 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 "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 coursewor--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 course work 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 advisor.

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.

The schedule which follows indicates how a serious student who can devote full time to course work 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 2045	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 Cal 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 3313	Statics	3
EGN 3373	Electrical Systems I	3
EGN 2210	Fortran	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 3301	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 3264L	Transport Processes I Lab	0
ECH 4123	Phase & Chemical Equilibria	3
ECH 4123L	Phase & Chemical Equilibria Lab	0
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 4265L	Transport Porcesses II Lab	0
CHM 3211	Organic Chemistry II	4
ECH 4605	Proces 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 4415L	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	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.

a. Environmental/Water Resources - courses in water treatment, waste water treatment, air pollution control and water resources.
b. Geotechnical/Transportation - courses in soil mechanics, foundations, transportation, and surveying.
c. Materials - courses in engineering materials, polymers, corrosion control and materials processes.
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.

Bachelor's Curricula
Civil Engineering Option

Semester I

ENC 1101	Freshman English I	3
MAC 3281	Engr. Calculus I	3
CHM 2045	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	FORTRAN for Engineers	2
EGN 3313	Statics	3
Approved Humanities Elective		3
Approved Social Science Elective		3
		18

Semester IV

MAP 4302	Differ. Equations	3
EGN 3365	Materials Engr. I	3
EGN 3373	Intro to Elec. Sys. I	3
EGN 3343	Thermodynamics I	3
EGN 3443	Engr. Statistics	3
Approved Humanities or Social Science Elective		3
		18

Semester V

EGN 3354C	Basic Fluid Mech.	3
EGN 3321	Dynamics	3
EGN 3331	Mechanics of Matls.	3
EGN 3331L	Mech. of Matls. Lab	1
ENV 3001	Environmental Engineering	3
EGN 4420	Num. Mthds. of Analysis	2
EGN 4450	Intro to Linear Systems	2
		17

Semester VI

CES 3102	Structures I	3
CWR 4202	Hydraulics	3
TTE 4004	Transportation Engr. I	3
CEG 4011	Soil Mechanics I	3
CEG 4011L	Geotech Lab	1
GLY 3830	Geology for Engrs.	3
		16

Semester VII

EGN 3613	Engineering Economy	3
CES 4605	Concepts Steel Design	3
CES 4702	Concepts Concrete Design	3
Approved Technical Writing Course		3
C.E. Design Requirement		2
C.E. Concentration Requirement		3
		17

Semester VIII

CGN 3021	C.E. Lab	2
COM 4110	Speech for Professionals	3
CGN 4122	Engr. Contracts & Specs.	3
C.E. Design Requirement		2
C.E. Concentration Requirement		3
C.E. Concentration Requirement		3
Approved Humanities or Soc. Sci. Elective		2
		18

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

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 System 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	Frshmn English I	3
MAC 3281	Engr Calculus I	3
CHM 2045	General Chemistry I	3
EGS 1113	Intro to Des. Graphics	3
EGN 1002	Engr Orientation	0
Approved Humanities Elect.		3
Approved Social Science Elect.		2
		17
	Semester II	
ENC 1102	Frshmn English II	3
MAC 3282	Engr 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
Approved Humanities Elect.		3
		17
	Semester III	
MAC 3283	Engr Calculus III	3
PHY 3049	General Physics II	3
PHY 3049L	General Physics II Lab	1
EGN 2200	Engr with Computers	2
EGN 3313	Statics	3
CHM 3200	Organic Chemistry	4
		16
	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 Human/Social Science Elec.		3
		18
	Semester V	
EGN 3321	Dynamics	3
EGN 3331	Mechanics of Materials	3
EGN 3331L	Mech. of Matls Lab	1
EGN 3354C	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	Env. Unit. Operation	3
CEG 4011	Soil Mechanics I	3
EMC 3103	Thermodynamics II	3
ENV 4004	Env. Engr Laboratory	1
CEG 4211	Geotech. Laboratory	1
		17
	Semester VII	
EGN 3613	Engr Economy	3
CES 4605	Concepts Steel Design	3
CES 4702	Concepts Concrete Design	3
GEB 3211	Business Comm. for C.E.'s	
	OR	
ENC 3210	Technical Writing	3
ENV 4552	Unit Ops. & Process Lab	1
ENV 4503	Env. Unit Processes	3
ENV 4432	Water Systems Design	2
		18
	Semester VIII	
COM 3110	Speech for Professionals	3
CGN 4122	Engr Contracts & Specs	3
ENV 4101	Air Pollution Control	3
TTE 4004	Transportation Engr I	3
ENV 4531	Wastewater Systems Design	2
		17

4. Computer Science and Engineering

Three undergraduate programs are offered within Computer Science and Engineering. They are: the Computer Engineering program (leading to a Bachelor of Science in Computer Engineering), the Computer Science program (leading to a Bachelor of Science in Computer Science), and Information Systems program (leading to a Bachelor of Science in Information Systems).

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. The Information Systems program provides a foundation for careers in the corporate information systems environment by blending application-oriented computer science with a substantial exposure to business courses.

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. This is the reason for requiring 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 VSLI 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	Frshmn English I	3
Social Science/Hum		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	Frshmn English II	3
Social Science/Hum		3
		16

	Semester III (Summer)	
PHY 3049	Physics II	3
PHY 3049L	Physics II Lab	1
MAC 3283	Engr Calculus III	3
Social Science/Hum		3
		10

	Semester IV	
EGN 3373	Elect. Sys. I	3
COT 3100	Discrete Structures	3
GEB 3211	Business Comm.	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 CS	3
COP 3000L	Intro to CS Lab	1
Social Science/Hum		3
		16

	Semester VI	
EEL 4851	Data Structures	3
EEL 4705	Logic Design	3
EEL 4705L	Logic Design Lab	1
Technical Electives		6
Social Science/Hum		3
		16

	Semester VII	
CDA 4100	Computer Organization	3
COP 4400	Comp. Systems	3
COT 4210	Automata Theory	3
Free Elective		3
Computer Science Elective		3
		15

	Semester VIII	
EEL 4757	Microprocessors	3
EEL 4743L	Micro. Lab	1
COP 4600	Sys. Prog.	3
COT 4400	Analysis Alg.	3
Computer Science Elective		3
Free Elective		3
		16

	Semester IX	
EEL 4860	Software Engr	3
COP 4020	Prog. Lang.	3
Computer Science Electives		9
		15

Bachelor of Science In Computer Engineering Curriculum

	Semester I	
EGN 1002	Engr Orient.	0
MAC 3281	Engr Calculus I	3
CHM 2045	Chemistry I	3
CHM 2045L	Chemistry I Lab	1
ENC 1101	Frsh. Eng. I	3
Social Science/Hum		6
		16

	Semester II	
MAC 3282	Engr Calculus II	3
PHY 3048	Physics I	3
PHY 3048L	Physics I Lab	1
ENC 1102	Frsh. Eng. II	3
CHM 2046	General Chemistry II	3
Social Science/Hum		3
		16

	Semester III	
PHY 3049	Physics II	3
PHY 3049L	Physics II Lab	1
MAC 3283	Engr Calculus III	3
Social Science/Hum		3
		10

	Semester IV	
EGN 3373	Elect. Sys. I	3
COT 3100	Discrete Structures	3
MAP 4302	Diff. Equations	3
EGN 3343	Thermo I	3
EGN 3313	Statics	3
GEB 3211	Bus. Communications	3
		18

	Semester V	
EEL 3302	Electronics	3
EGN 3321	Dynamics	3
COP 3002	Intro to C.S.	3
COP 3000L	Intro C.S. Lab	1

EGN 4450	Linear Systems	2
EGN 3443	Egr. Statistics	3
		15

Semester VI

EGN 3365L	Materials	3
EEL 4851	Data Structures	3
EGN 3613	Engr Economy	3
EEL 4705	Logic Design	3
EEL 4705L	Logic Design Lab	1
EEL 4305	Electronics II	3
		16

Semester VII

CDA 4100	Comp. Organization	3
COP 4400	Comp. Systems	3
COP 4210	Automa. Theory	3
Social Science/Hum		3
Computer Engineering Elective		3
		15

Semester VIII

EEL 4757	Microprocessors	3
EEL 4743L	Micro Lab	1
COP 4600	Sys. Prog.	3
Social Science/Hum		3
Computer Engineering Elective		6
		16

Semester IX

EEL 4748	Micro Based System	3
CDA 4203	Comp. Syst. Design	3
CDA 4203L	Comp. Syst. Design Lab	1
CIS 4911	Comp. Engr. Project	2
Computer Engineering Elective		5
		14

Bachelor of Science In Information Systems Curriculum

Semester I

ENC 1101	Freshman English I	3
MAC 3233 or 3281	Calculus I	3
AGC 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
AGC 2011	Elem Accounting II	3
Humanities\Social Science Elective		3
		16

Semester III (Summer)

PHY 3054 or 3049	Physics II	3
PHY 3049L or 3054L	Physics II Lab	1
EGN 2210	Fortran for Engr.	2
Science Elective		3
		9

Semester IV

COT 3100	Descrete Structures	3
COP 3120	COBOL	3
ECO 2023	Microeconomics	3
STA 3023	Intro to Statistics	3
Humanities/Social Science Elective		3
		15

Semester V

COP 3002	Intro. to CS	3
COP 3000L	Intro. o CS Lab	1
MAS 3103	Linear Algebra	3
ECO 2013	Macroeconomics	3
Humanities/Social Science Elective		6
		16

Semester VI

EEL 4851	Data Structures	3
EEL 4705	Logic Design	3
MAN 3025	Principles of Mgmt	3
EEL 4860	Software Engr.	3
COP 4020	Programming Languages	3
		15

Semester VII

COP 4400	Computer Systems	3
EEL 4852	Data Base Systems	3
XXX 0000	Technical Comm.	3
XXX 0000	Software Engr. II	3
Business Elective		3
		15

Semester VIII

COP 4600	Systems Programming	3
ESI 4314	Operations Rsch I	3
EEL 4781	Dist. Proc. & Networks	3
XXX 0000	Fourth Generation Lang	3
XXX 0000	SW Tools& Metrics	3
Humanities/Social Science Elective		3
		18

Semester IX

CIS 4910	Senior Project	2
XXX 0000	Computer Simulation	3
Business Elective		3
Information Systems Elective		6
		14

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.

Bachelor's Curriculum
Electrical Engineering

Semester I

ENC 1101	Freshman English I	3
CHM 2045	Gen. Chem. I	3
CHM 2045L	Gen. Chem. Lab	1
MAC 3281	Engr. Cal. I	3
EGN 1002	Engr. Orient.	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. Phy. I	3
PHY 3048L	Gen. Phy. I Lab	1
MAC 3282	Engr. Cal. II	3
EGN 2210	Fortran 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 3313	Statics	3
EGR 3613	Egr. Economy	3
		17

Semester IV

MAP 4302	Differ. Equations	3
EGN 3321	Dynamics	3
EGN 3373	Intro to Elec. Sys. I	3
EGN 3443	Statistics & Prob.	3
PHY 3101	Modern Physics	3
EGN 3343	Thermodynamics	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	Li. Sys. Anal.	3
EEL 4350	Semiconductor Devices	3
EEL 4411	Fields & Waves II	3
ELR 3301L	Lab I	1
EGN 3365L	Materials Engineering	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	CAD	2
Approved Non-technical Elective		4
		17

Semester VIII

EEL 4757	Microprocessors	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 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 2045	General Chemistry I	3
EGN 1002	Engr. Orientation	0
EGN 1115L	Engineering 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	FORTRAN	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 3313	Statics	3
EGN 3443	Statistics I	3
Approved Communication Course		3
		19

Semester IV

MAP 4302	Differ. Equations	3
EGN 3373	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 Linear Systems	2
EIN 4312L	Work Analysis	3
EGN 3375	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	Quality Control	3
EIN 4364	Facilities Design I	3
EGN 3354	Basic Fluid Mechanics	3
Science Elective		3
		18

Semester VII

ESI 4911	Senior Project	2
EIN 4334	Production Control	3
EIN 4313	Human Factors Design	3
ESI 4523	Ind. Syst. Stimulation	3
Approved Humanities		3
		14

Semester VIII

EIN 4251	Automation and Robotics	3
ESI 4521	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 2045	General Chemistry I	3
Social & Behav. Science Elective		3
EGS 1113	Intro. to Design Graphics	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 1002	Engineering Orientation	0
EGN 3313	Statics	3
EGN 4450	Intro. to Linear Systems	2
MAP 4302	Differential Equations	3
EGN 3343	Thermodynamics I	3
EGN 3373	Electrical Systems I	3
Social & Behav. Science Elective		3
		17

Semester IV

EGN 3433	Systems Dynamics	3
EGN 3443	Statistics	3
EGN 3375	Intro. Electrical Systems III	3
EML 4106C	Thermal Systems and Economics	3
EGN 3365	Materials	3
EGN 3321	Dynamics	3
		18

Semester V

EML 3701	Fluid Systems	3
EML 4041	Computer Simulation	3
EML 3264	Kinematics/Dynamics of Mach.	3
EML 3500	Mach. Anal. and Des. I	3
ECH 3702	Instrument Systems	4
		16

Semester VI

EML 3303	Mech. Lab I	3
EML 4142	Heat Transfer	3
EML 4503	Mach. Anal. and Des. II	3
Approved Technical Elective		2
Humanities/Soc Sci Elective		6
		17

Semester VII

EML 4312	Mech. Controls	3
EML 4302	Mech. Lab II	3
EML 4551	Project Design I	3
Humanities/Soc Sci Elective		2
Technical Elective		2
Technical Writing Elective		3
		16

Semester VIII

Approved Design Elective		3
Approved Technical Electives		6
		9

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 course work 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 course work 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 (ABCDF). Exceptions require written approval of the department adviser prior to registration.

The College of Engineering requires that a student complete the Basic Science, Engineering Science and Specialization Requirements for the baccalaureate degree within seven years prior to the date of graduation. Any exceptions require approval of the department and Dean's Office.

Each engineering student is required to complete the *Application for Graduation - Check List* and submit it to the College of Engineering Advising Office by the drop date of the term prior to the semester in which graduation is sought. Completion of this form is a requirement for graduation.

Effective fall of 1987 all incoming students pursuing Bachelor of Science degree programs in Chemical, Civil, Electrical, Industrial 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. (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.

ENGINEERING TECHNOLOGY

(Discontinued effective Aug., 1993)

The four year program in Computer Technology is being merged with the Information Systems program in the Computer Science and Engineering Department. A three year transition plan is in effect starting in August, 1990. New students seeking admission to the four year program are encouraged to apply for admission to the Information Systems program. (See Page 17) The Engineering Technology two year program for the Associate of Science degree transfer from the community college will be phased out by August, 1993.

The programs described below are applicable to students who are currently enrolled.

■ BACHELOR OF ENGINEERING TECHNOLOGY

Upon completion of their full four years of study leading to the award of the Bachelor of Engineering Technology degree, students will have gained a well-rounded background concentrated in the following areas: Engineering Technology, Mathematics and Science, Liberal Arts and Social Science, and Management and the area of Computers. A student who has completed this program should be adequately prepared to assume career responsibilities in technical, technical supervisory, or technical executive positions. Prospective students should note, however, that this program is not intended to be an engineering program. Rather, its function is to bridge the gap between design or research engineers, and management. It is for this reason that the program consists of a balance of coursework in technical management, and Liberal Arts and Social Science areas.

A typical student pursues the bulk of the Engineering Technology coursework, together with much of the mathematics and science coursework, within the framework of a junior college Associate of Science degree Engineering Technology program. Most of the liberal arts and social science coursework, management and computer-oriented studies, and some additional engineering technology coursework is taken by the student at USF during the junior and senior year. The typical four years of study thus exhibit approximately the following coursework distribution (in credit hours):

Engineering Technology	53
Management & related studies	20
Liberal Arts, Social Science and electives	32
Mathematics and Science	15
Total	120

Specific students' programs may deviate from this balance to some extent due to the differences in the students' first two years' program contents.

At USF a portion of each student's program may be used for one of the areas of concentration listed below.

Computer Systems Technology
Management Engineering Technology

These areas are designed to complement the technical work received at the community college and need not necessarily be in the same field in which the A.S. degree is awarded.

Also available is a four-year degree in Computer Systems Technology which is mainly software applications.

Admission

In general, students are expected to have successfully completed an Associate of Science degree in Engineering Technology at a community college or to have accomplished equivalent work. The student must have completed a minimum of mathematics through applied integral calculus, a non-calculus physics sequence, and at least 6 semester hours of Freshman English. Limited resources in the presence of increasing enrollment demand have forced limiting enrollment to this program. ***The College's admissions requirements and procedures are listed previously.*** Students who meet all admission requirements are required to complete a minimum of 60 additional semester hours to receive the Bachelor of Engineering Technology degree.

Technology Admission Requirements

Bachelor of Engineering Technology - Computer Technology Program:

A. Freshmen:
   1. TEST SCORES:
      SAT - quantitative of 450 minimum; composite of 900.
      ACT - mathematics of 18 minimum.
   2. HIGH SCHOOL MATHEMATICS: Grade point average of 2.5 or better with no grade below "C". Sufficient coursework to enter required Calculus sequence.

B. Transfer Applicants:
   1. MATHEMATICS PREPARATION:
      a. Completed College Algebra with grade of "B" or better, OR
      b. Completed College Algebra and first applicable Calculus sequence with grade point average of 2.5; no grade below "C."
   2. OVERALL GRADE POINT AVERAGE: 2.5/4.0 minimum.

Bachelor of Engineering Technology (A.S. Degree* plus 60 Semester Hrs.)

*One year non-calculus Physics and one year Calculus additionally required if not completed in A.S. degree.

Areas of Concentration:
A) Computers
B) Management

Junior Year:
Semester I

CGS 3060	Introduction to Computers I	3
ECO 2023	Economic Principles (Microeconomics)	3
EGN 3613	Engineering Economy I	3
ETI 4600	Industrial Systems	3
ACG 2001	Elementary Accounting I	3
		15

Semester II

CDA 3100	Computers II	3
ACG 2011	Elementary Accounting II	3
ECO 2013	Economic Principles (Macroecon.)	3
COP 3120	COBOL I	3
Area of concentration		3
		15

Senior Year:
Semester I

STA 3023	Introductory Statistics I	4
COP 3200	FORTRAN	3
ETI 4614	Principles of Indus. Ops. I	3
Area of Concentration		6
		16

Semester II

ETI 4661	Principles of Indus. Ops. II (Project)	3
Approved Communications Course		3
Area of Concentration		8
		14

Areas of Concentration (17 semester hours)

Computer

COP 3121	COBOL II	3
CGS 3462	PASCAL	3
CDA 3101	Computers III	3
CGS 4465	Data Representation & Manipulation	3
ETG 4931	Operating Systems	3
General Studies Electives		2
		17

Management

MAN 3025	Princ. of Management	3
MAR 3023	Basic Marketing	3

FIN 3403	Princ. of Finance	3
General Studies Electives		8
		17

Approved listing of General Study Electives/Humanities Social Sciences and Communication courses available in Engineering Advising Office (ENG 104).

Bachelor's Curriculum For Computer Technology

Semester I

ENC 1101	Freshman English I	3
MAC 2233	Elem. Calc. I	4
ACG 2001	Elementary Accounting I	3
CGS 3060	Intro to Computers (Basic)	3
Humanities		3
		16

Semester II

ENC 1102	Freshman English II	3
MAC 2234	Elem. Calc. II	4
ACG 2011	Accounting II	3
COP 3200	FORTRAN	3
Social Science		3
		16

Semester III

ECO 2013	Macroeconomics	3
EGN 3613C	Engineering Economy	3
PHY 3053	General Physics I	3
PHY 3053L	General Physics Lab I	1
CDA 3100	Computers II	3
Approved Non-technical Elective		3
		16

Semester IV

PHY 3054	General Physics II	3
PHY 3054L	General Physics Lab II	1
CDA 3101	Computers III	3
STA 3023	Intro. Statistics	4
ECO 2023	Microeconomics	3
Approved Non-technical Elective		3
		17

Semester V

ETI 4600	Industrial Systems	3
CGS 3462	PASCAL	3
MAN 3025	Prin. Management	3
CGS 4260	Mini-Computer Application	3
Humanities/Social Science		4
		16

Semester VI

ETI 4614	Princ. Indus. Oper. I	3
COP 3120	COBOL I	3
FIN 3403	Princ. Finance	3
CGS 4465	Data Rep. & Manipulation	3
Communications Course		3
		15

Semester VII

COP 3121	COBOL II	3
MAR 3023	Marketing	3
ETG 4931	Operating Systems	3
COP 3300	GPSS (or Technical Elective)	3
		12

Semester VIII

ETI 4661	Princ. Ind. Oper. II	3
CGS 3464	SIMSCRIPT Simulation	3
COP 3130	PL/I (or Technical Elective)	3
Humanities/Social Science		3
		12

*Approved listings of general studies, Humanities, Social Sciences and Communication courses are available in the Engineering Advising Office (ENG 104).

Students who are currently following a program other than that of an Associate of Science degree in Engineering Technology at a community college and who are interested in pursuit of studies in this field should contact the College of Engineering for further guidance.

Further information is available from:
Director of Engineering Technology
USF St. Petersburg Campus
140 Seventh Avenue, South
St. Petersburg, Florida 33701
or
Director of Engineering Technology
College of Engineering
University of South Florida
Tampa, Florida 33620

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.

Course:

Chemistry/Biology (10 hours min.)
BSC 2010 Fundamentals of Biology*
BCM 3033 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 4013 Neurophychology
(or approved substitute)

Engineering (9 hrs. min.****)
EEL 4935 Biomedical Instrumentation
ECH 5746 Intro to Biomedical Engineering

One or more of the following (to achieve 9 hrs. min. in area):
EIN 4314 Human Factors
EIN 5245 Work Physiology & Biomechanics
ECH 5747 Selected Topics in 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 course-work, 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 ascynchronous 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 three 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 1987-88 a sponsored research volume of approximately 5 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.

NASA STAC (Southern Technology Applications Center)

STAC is a multi-state technology transfer organization 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 300+ 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 1,500 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 locate efficiently critical technologies, marketing and business data, experts, facilities, and equipment to complete successfully 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 promotes the pursuit of science and engineering careers through outreach seminars to K-12 students who will 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.

Bi-County Center for Engineering

The Bi-County Center for Engineering was established on the USF at Sarasota campus in 1984. It serves the Manatee and Sarasota County area by providing local access to the College of Engineering program. Selected courses from all departments are offered in response to student needs. The professional programs in Electrical and Computer Engineering, together with Engineering Technology, are areas of special emphasis. Students who begin as freshmen at Manatee Community College and complete the A.A. in Pre-Engineering are able to transfer directly into USF and continue toward the Bachelor's degree. Other transfer students will be evaluated on an individual basis. All coursework taken at USF as part of a planned degree program is applicable to that program without any campus distinction. Students may move freely between the main campus in Tampa and the regional campus in Sarasota. For information, contact the Engineering Advising Office in Tampa or the Bi-County Center Office in Sarasota.

COLLEGE OF FINE ARTS

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.

Fine Arts Events

The College of Fine Arts, recognizing the importance of maintaining an arts-filled environment as an integral part of the total learning experience it offers to the students within the college and to the community at large, is critically aware that a truly comprehensive university performing arts program must include performances and related activities by internationally recognized artists and ensembles.

The list of prestigious artists who have been presented over the years by the College of Fine Arts is impressive and a sampling includes John Cage, the Guarneri String Quartet, Lazar Berman, the New York Pro-Musica, Alvin Ailey, Martha Graham, Marcel Marceau, and the Polish Mime Ballet Theatre. (More extensive lists of visiting artists and performing organizations appear in this catalog under the sections of the specific academic units in the college in which research, demonstration, teaching, and other educational activities have directly benefited 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 department. 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, 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 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 on-going academic advising, referral services and assistance to all present and potential students. Academic advisers are provided for each of the departments 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 dating ten or more years prior to admission (or readmission) will have those credits reviewed by the College and Department 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 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 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, 30 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 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 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 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, Music and Theatre 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 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 chairperson, 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 as the major. The requirements for these programs are located under the departmental 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, 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 2202C (4) ART 2203C (4) ART 3001 (4)
   Plus: Two 4 semester hour classes from 3000 studio level (8)
2. Art History Concentration:
   ART 2202C (4) ART 2203C (4) ARH 3000 (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 Scott Barlett, Larry Bell, Lucas Samaras, Robert Irwin, James Rosenquist, Robert Rauschenberg, Philip Pearlstein, Edward Fry, Alice Aycock, Alfred Leslie, Linda Benglis, Ron Gorchov, Patterson Sims, Jack Burnham, Barbara Kuger, Jim Dine, Donald Kuspit and Robert Storr.

ART MUSEUM

The USF 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 comtemporary 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	3202	Ballet III	3
DAA	3701	Choreography II	2
DAN	2611	Music for Dance II	2
DAN	3480	Performance	1
		(Repeat for 2 cr. hrs.)	
DAN	3590	Practicum in Dance Prod. I	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
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 (Jr. Project)	1
DAN	4790	Senior Project	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	3701	Choreography II	2
DAA	4702	Choreography III	2
DAN	3611	Music for Dance II	2
DAN	3480	Performance	1
		(Repeat for 2 cr. hrs.)	
DAA	3220	Ballet Variations	1
		(Repeat 2 times)	
DAA	4206	Ballet IV	4
		(Repeat for 8 cr. hrs.)	
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 (Jr. Project)	1
DAN	4790	Senior Project	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)
Modern I	DAA 2101 (2)
Modern Dance II	DAA 2160 (3)
Ballet I	DAA 2200 (2)
Ballet II	DAA 2201 (3)
Fundamentals of Jazz Dance	DAA 2500 (2)
Music for Dance I	DAN 2610 (2)
Music for Dance II	DAN 2611 (2)
Dance Improvisations	DAA 2704 (2)

Courses for Upper Level (minimum of 10 hours required)
Select from:

Movement Theory & Body Alignment	DAA 3060 (2)
Modern Dance III	DAA 3161 (3-4)
Ballet III	DAA 3202 (3-4)
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 Hist of Dance - 6A	DAN 4111 (3)
19th & 20th Century Dance	DAN 4112 (3)
Modern Dance IV	DAA 4106 (4)
Ballet IV	DAA 4206 (4)
Teaching of Dance	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 2232 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 senior dance majors are required to choreograph a group work and perform a solo as a senior project.

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 area. 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 music department office.

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 3001 (see the specific requirements for MUS 3001 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)

Vocal Performance
MVV 2000 (2)

Music Literature (3)
MUL 2111 (3)

Music History (8)
MUH 3300 (2) MUH 3301 (3) MUH 3302 (3)

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 3001 (Recital Attendance).

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)

Junior and senior recital requirements may be fulfilled in one of the following ways; (1) lecture/recital, (2) ensemble performance, (3) full recital with music.

Jazz Studies-Performance Concentration

The following courses are required in addition to the core requirements:

MUT 3663 (2) MUT 3664 (2)

Applied music (major) through the 3000 level (min. of 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 4203 (6)	MUC 2202 (3)	MUC 3203 (3)
MUC 2201 (3)	MUC 3202 (3)	

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 3001 (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 2201 (3,3)	MUC 3401 (3)	MUC 3411 (2)
MUC 3202 (3,3)	MUC 3402 (3)	MUC 4312 (2)
MUC 4203 (3)		

and a minimum of 5 hours selected from:

MUC 2301 (2)	MUC 3601 (3)	MUC 4406 (3)
MUC 3441 (3)	MUC 3602 (3)	MUC 4501 (2)
MUC 3442 (3)	MUC 4405 (3)	MUC 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 3001 (see the specific requirements for MUS 3001 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)	MUE 3460 (1)**	MUE 4332 (3)
MUE 3423 (1)	MUE 3461 (1)	MUE 4480 (2)

One hours courses must be repeated to achieve 20 cr. hrs.

* 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 3001.

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)	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 3001.

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 (16 cr. hrs.)

MUE 3460(1)	or	MUE 3461(1)*
MUE 3450(1)	or	MUE 3451(1)*

MUE 2090(2) MUE 4352(2)
MUE 3421(1) MUE 4311(3)
MUE 3422(1) MUE 4330(3)
MUE 3423(1)

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 3001.
Applied Music Secondary Techniques (2 cr. hrs.)
(one each: string, percussion)
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 3001 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 courses is by audition. Class or studio courses may serve as preparation for auditions. Registration in all music courses is by permission of the instructor. Studio courses may be repeated for credit as stipulated in the catalog.

The Faculty:

USF's superior music faculty has been carefully chosen for its training, performing ability, and ability to teach. It is in every sense a team. This achievement has been demonstrated by such fine musical ensembles as the Faculty Metropolitan Arts Trio, the Ars Nova (faculty) Wind Quintet and the Faculty Jazz Quartet. USF music graduates are found teaching successfully in public schools and universities around the country and performing in a variety of concert settings.

Student Organizations:

Sigma Alpha Iota, national professional music fraternity for women, and Phi Mu Alpha Sinfonia, a professional music fraternity for men, are dedicated to serve the cause of music in America. College Music Educators National Conference is an affiliate of the Music Educators National Conference and is open to all interested students.

Financial Aid:

The University has made available to highly qualified undergraduate students a number of music service awards. Awards are made following open auditions held in January, February and March. The award is made for the following year for two semesters. Out-of-state tuition waiver is also possible. Also available are scholarships awarded in specified areas including Dawn Randall Zimmerman Flute Scholarship, Mary Corey Bogdonas Scholarship, Steve Penovich Scholarship, Marjorie Roe Cello Scholarship, the Zbar Piano Award, and the V. A. Bridges Music Education Scholarship. Additionally, loans, grants and work programs are available to qualified University of South Florida students. Financial aid is granted on need, academic promise and talent.

Unique Learning Opportunities:

The School of Music at the University of South Florida offers the student the opportunity to study with a distinguished faculty, work with the newest in creative equipment, and to be in the company of other superior music students for an extensive, exciting and exacting period of study. In addition to the already established programs in the music education, choral, orchestral and wind ensemble areas, opportunities are now available in jazz with performances with the jazz ensemble and chamber jazz ensembles, a full range of jazz courses and professional playing opportunities in the area.

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, Miriam Goldina, Boris Goldovsky, Henry Hewes, Bob Kelly, Mesrop Kesdekian, Michael Kirby, Arthur Lithgow, Marcel Marceau, Siobhan McKenna, Bob Moody, Estelle Parsons, Olga Petrovna, Ben Piazza, Sergei Ponomarov, Alan Schneider and Doug Watson, Able and Gordon; 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, BBC, the London Academy of Music and Dramatic Art, the Working Theatre, Coventry's Belgrade Theatre, East Berlin's Deutsches Theatre, Free Theatre of Munich, the Socialist Republic of Armenia and Poland.

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 2 credit hours — TPA 2200 3 credit hours
TPA 2223 3 credit hours or TPA 2232 3 credit hours
TPP 2110 3 credit hours

Second Year (10 credit hours)
THE 3110 4 credit hours — TPP 3111 3 credit hours
TPA 3086 3 credit hours

Third Year (8 credit hours)
Choice of two:
THE 4320 3 credit hours — THE 4330 3 credit hours
THE 4370 3 credit hours — THE 4401 3 credit hours
THE 4442 3 credit hours — THE 4480 3 credit hours
plus 2 credits of THE 3925 for PI*

Fourth Year (6 hours)
Choice of one:
THE 4180 4 credit hours — THE 4562 4 credit hours
plus 2 credits of THE 4927 for PI*

*All Theatre Majors must complete 4 PI's (Production Involvement) as part of their graduation requirements. PI's must be taken under:

THE 3925 Production Involvement 1 credit hour and/or
THE 4927 Advanced Production Involvement 1 credit hour

for a total of four (4) 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 four involvements. It is a graduation requirement.

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:

Second Year (4 hours)
TPP 3500 2 credit hours — TPP 3790 2 credit hours

Third Year (6 hours)
TPP 4150 3 credit hours — TPP 4152 3 credit hours

Fourth Year (7 hours)
TPP 4140 3 credit hours — TPP 4180 3 credit hours
TPP 4920 3 credit hours

Design Area
(55 hours minimum with core) - 20 hours as follows:

First Year (3 hours)
Complete Theatre Crafts sequence with TPA 2223 or TPA 2232

Second Year (3 hours)
TPA 4211 3 credit hours — ART 3301 4 credit hours

Third Year (6 credit hours)
Choice of 2 depending on choice of design area:
TPA 3221 3 credit hours or THE 4264 3 credit hours or
THE 4266 3 credit hours — TPA 4230 3 credit hours

Fourth Year (8 credit hours)
Choice of 2 depending on design area:
TPA 4020 4 credit hours — TPA 4040 4 credit hours
TPA 40604 credit hours

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, Playwrighting, 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)
19 hours as follows:

First Year (3 hours)
Complete Theatre Crafts sequence with TPA 2223 or TPA 2232

Second Year (9 hours)
TPP 3500 or TPP 3790 2 credit hours
Complete 8 credit hours from the following
TPA 22501 credit hour — TPA 3221 3 credit hours
TPA 32603 credit hours — TPA 3601 2 credit hours
TPA 4211 3 credit hours — THE 4264 3 credit hours

Third year (6 hours)
TPP 4150 3 credit hours — TPP 4310 3 credit hours

(37-40 hours minimum in College of Education)
Foundations (9 hours)
EDF 3214 3 credit hours

EDF 3604 3 credit hours EDG 4620 3 credit hours

General Methods (9 hours)
EDG 4320 3 credit hours THE 4761 3 credit hours
THE 4723 3 credit hours or THE 4722 3 credit hours

Special Methods (7-10 hours)
RED 4337 2 credit hours EDF 4430 3 credit hours
EEX 4070 2-3 credit hours EME 4402 2 credit hours

Practical Experience (12 hours)
EDG 4940 10 credit hours EDG 4936 2 credit hours

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):

TPA 2223 3 credit hours or TPA 2232 3 credit hours
THE 2020 2 credit hours TPP 2110 3 credit hours
TPA 2200 3 credit hours THE 3925 1 credit hour
THE 4927 1 credit hour

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 audition or 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(Research & Design Creative Project) (4 credit hours) and

TPA 4012 Project Design: Honors (3 credit hours)

Complete third area of design and prerequisite (7 credit hours) 10 credit hours of additional electives of which 6 must be outside the Department of Theatre.

PLUS 6 credit hours.

TPP 4310 Directing I (3 credit hours)

THE 4900 Directed Reading (3 credit hours)

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

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 interlibrary 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 & Reniassance 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 school report. 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 75% 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 December 1. 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 Admissions Office, 5700 N. Tamiami Trail, Sarasota, Florida 34243. Phone (813) 355-2963.

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

The College of Nursing is committed to the improvement of nursing and health care services through its educational programs, community service, and related research activities. 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 with appropriate preparation equivalent to two years of college 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 and/or part-time basis on the Tampa campus, or on a part-time basis on the University campuses at Fort Myers, Sarasota, and St. Petersburg. 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 parctice.

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 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 Admissions Office, 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 at least one (1) semester in advance of the semester in which they intend to enroll. For more specific information, contact the College of Nursing Undergraduate Admission Office.

HONORS PROGRAM

An Honors Program in Nursing is available for highly qualified students. Emphasis is on individual research and creative scholarship and each student is required to complete and defend orally an undergraduate thesis.

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. Maintain 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 3117	Introduction to Professional Nursing
NUR 3007	Nursing Process
NUR 3066C	Client Assessment I
NUR 3706	Nursing Concepts in Secondary Care
NUR 3706L	Nursing Practicum I
NUR 3829	Ethical/Legal Aspects in Nursing and Health Care
NUR 4165	Introduction to Research
Electives	

No student with conditional admission will be allowed to progress to 4707 and 4707L until the general education requirements are met. 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 Admissions office (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, microbiology, and physiology). 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. CLEP is acceptable. BSC 2010C, BOT 2010C, ZOO 2010C
   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.
   Can be partially met with CLEP.
   CHM 2045, 2046 or *CHM 2030, 2031
   *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 3010C. 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. CLEP is not acceptable. 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 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 2010C, BOT 2010C, ZOO 2010C; General Chemistry CHM 2045; 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 Admissions Office, 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 4 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 political), 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 students intended major.*

Nursing Courses - Basic Baccalaureate Sequence

Junior Year (3 semesters)

NUR 3117	Introduction to Professional Nursing (3)
NUR 3615	Nursing Process I (3)
NUR 3615L	Nursing Intervention I (2)
NUR 3066C	Client Assessment I (2)
NUR 3829	Ethical-Legal Aspects in Nursing and Health Care (2)
NUR 3456	Nursing Process II (2)
NUR 3456L	Nursing Intervention II (3)
NUR 3536	Nursing Process III (2)
NUR 3536L	Nursing Intervention III (2)
NUR 3067C	Introduction to Community Health Nursing (2)
NUR 4165	Introduction to Research (2)
NUR 4285C	Nursing Process IV (1)
NUR 4256	Nursing Process V (2)
NUR 4256L	Nursing Intervention IV (4)

Senior Year (2 semesters)

NUR 3835	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)

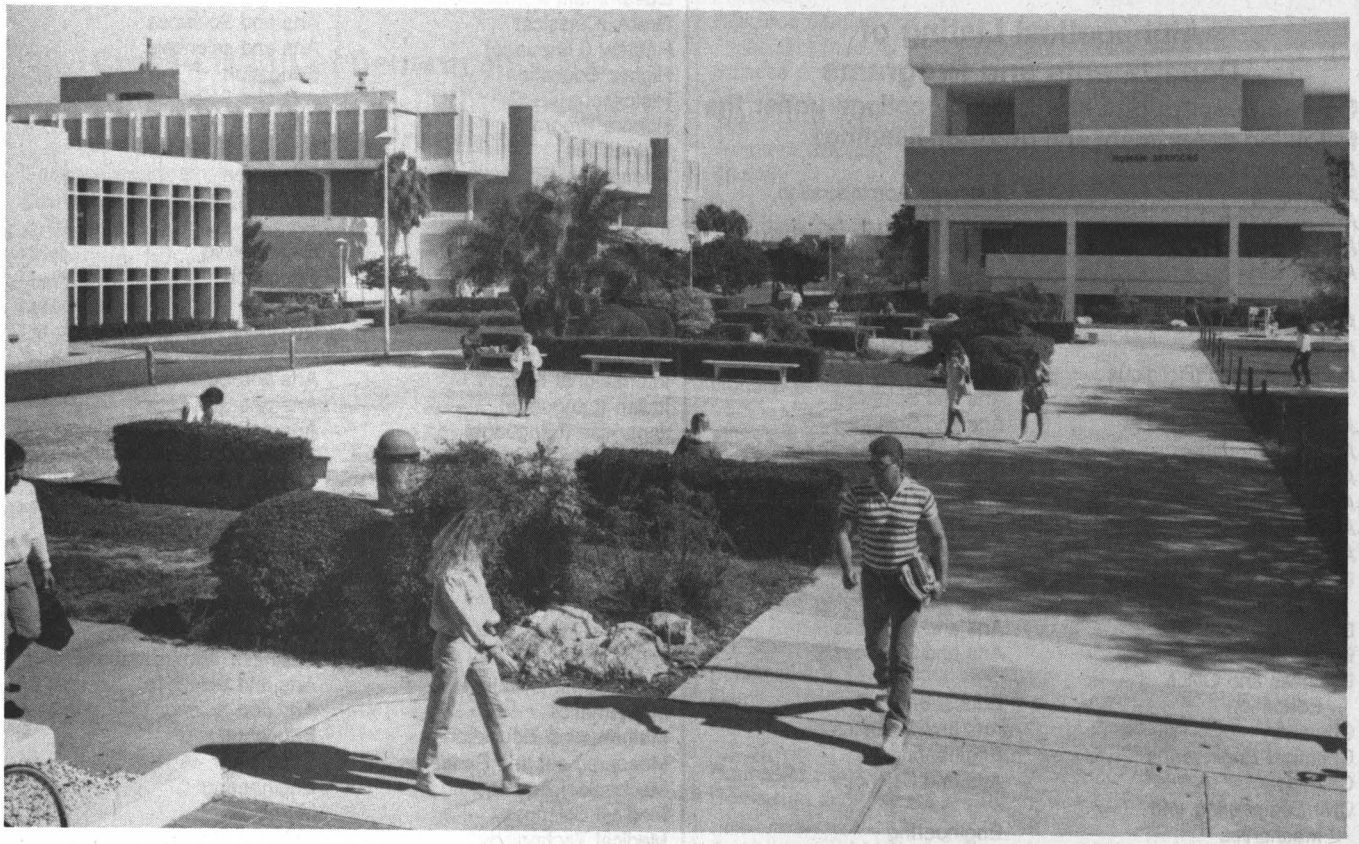
In addition to the requirements listed above, a minimum of 10 credits in upper level electives will be required for graduation: at least six (6) credits in upper level courses in general education (courses in arts, humanities, natural or behavioral sciences, economics, business or management, education, 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 3829	Ethical-Legal Aspects of Nursing and Health Care (2)
NUR 3117	Introduction to Professional Nursing (3)
NUR 3066C	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 4707	Nursing Concepts in Primary Care (4)
NUR 4707L	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).



COURSE DESCRIPTIONS

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, 3040L GENERAL PHYSICS AND 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
African and Afro-American 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
Foundation Courses in Business (Graduate)	Business Administration
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 and 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 and Information Studies	Education
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 Sciences	Medicine
Medical Technology	Arts and Sciences
Medicine	Medicine
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 (Langauge)	Arts and Sciences
Political Science	Arts and Sciences
Portuguese (Language)	Arts and Sciences
Psychology	Arts and Sciences
Public Administration	Arts and Sciences
Public and 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
Cooperative Education	COE
Honors Program	IDH
Military Science (Army ROTC)	MIS
Off-Campus Term	OCT
College of Arts and Sciences	
African and Afro-American	AFA
American Studies	AMS
Anthropology	ANT
Biology	BIO, BOE*
Biotechnology	
Botany	BOT
Chemistry	CHM, CHS
Classics	CLT
Greek	GRE, GRK, GRW
Latin	LAT, LNW
Clinical Chemistry	CHC
Communication	SPE
Criminology	CCJ
Economics	ECN
English	AML, CRW, ENC, ENG, ENL, LAE, LIN, LIT, REA
General Biology	
Geography	GPY
Geology	
Gerontology	GES, GEY
Government and International Affairs	GIA
International Studies	INT
Political Science	POL
Public Administration	PAD
History	HTY
Humanities	HUM
Interdisciplinary Natural Sciences	INS
Interdisciplinary Social Sciences	ISS
Language	
General Foreign Languages	FOL
Arabic	ARA
Chinese	CHI
French	FLE, FRE, FRW
German	GER, GEW
Hebrew	HBR
Italian	ITA, ITW
Japanese	JPN
Polish	POL
Portuguese	POR, POW
Romance	FOW
Russian	RUS, RUT, RUW
Spanish	SPN, SPW
Yoruba	YOR
Liberal Studies	IDS
Linguistics	ESL, LIN, PHI, TSL
Mass Communications	ADV, FIL, JOU, MMC, PGY, PUR, RTV, VIC
Mathematics	MAE*, MTH
Medical Technology	MET
Microbiology	MIC
Philosophy	PHH, PHI, PHM, PHP
Physics	PHE*, PHS, PHY
Psychology	PSY
Religious Studies	GRE, REL
Ancient Studies	CLA, HEB
Science	SCE*
Sociology	SOC
Social Science Education	SSE*
Women's Studies	WST
Zoology	ZOO
College of Business Administration	
Accounting	ACG, TAX
Common Body of Knowledge (Graduate)	GEB
Economics	ECO, ECP, ECS, GEB
Finance	FIN, REE, RMI
General Business Administration	BUL, CGS, COC, GEB, MAN
Information Systems and Decision Sciences	COC, CGS, GEB, QMB
Management	MAN, QMB
Marketing	MAR
College of Education	
Administration/ Supervision	EDA, EDS
Adult Education	ADE, PEP, PET
Art Education	ARE, EDG
Business and Office Education	BTE
Computers in Education	CAP, CGS, EDF, EME
Content Specializations	ARE, ENE, FLE, MAE, MCE, SCE, SED, SSE
Counselor Education	EGC, SLS
Curriculum and Instruction	EDE, EDG, EDM, ESE, LAE, THE
Distributive and Marketing Education	DEC
Physical Education Elective	DAA, PEL, PEM, PEN, PEQ, PET
Elementary Education	ARE, EDE, EDG, EDS, EEC, HLP, LAE, MAE, MUE, RED, SCE, SSE

English Education	LAE
Foreign Language Education	FLE
Foundations Education	EDF, SPS
Higher Education	EDH
Humanities Education	HUM
Industrial/Technical Education	ETA, EVI, EVT
Library, Media, and Information Studies	COP, LIS
Measurement-Research	EDF
Music Education	MUE
Physical Education for Teachers	HES, LEI, PEQ, PET
Reading Education	RED
Science Education	SCE
Social Science Education	SSE
Special Education	EDG, EED, EEX, EGI, ELD, EMR, EPH, EVI

College of Engineering

Basic and Interdisciplinary Engineering	EGN
Chemical Engineering	ECH, EMC
Civil Engineering and Mechanics	CEG, CES, CGN, CWR, EES, EMA, ENV, TTE
Computer Science and Engineering	CAP, CDA, CGS, CIS, COC, COP, COT, EEL, ESI
Computer Service Courses	CAP, CDA, COC, COP
Electrical Engineering	EEL, ELR
Engineering Technology	ETE, ETG, ETI, CGS
Industrial and Management Systems	EIN, ESI
Mechanical Engineering	EAS, EMC, EML, ENU

College of Fine Arts

Art	ARH, ART
Dance	DAA, DAN
Music	MUC, MUG, MUH, MUL MUN, MUO, MUS, MUT, MVB, MVK, MVP, MVS, MVV, MVW
Music Education	MUE
Theatre	THE, TPA, TPP

College of Medicine

Medicine	{CT}3BCC, BMS, GMS, HSC, MEL
Medical Sciences	BMS, GMS

Cross-Listing Departments/Programs Alphabetically by Prefix

Common Course Prefix	*Department/Programs*
ACG	Accounting
ADE	Adult Education
ADV	Mass Communications
AFA	African and Afro-American Studies, Women's Studies
AFH	African and Afro-American Studies, History
AFR	Air Force ROTC
AFS	African and Afro-American Studies, International Studies Program
AMH	African and Afro-American Studies, History
AML	English
AMS	American Studies, Women's Studies
ANT	Anthropology, Women's Studies
APB	Biology, Microbiology (Biology)
ARA	Arabic (Language)
ARE	Art Education, Content Specializations, Elementary Education
ARH	Art
ART	Art
ASH	History
ASN	International Studies Program
AST	Astronomy
BCC	Medicine
BCH	Chemistry
BMS	Medicine, Medical Sciences
BOT	Biology, Botany (Biology)
BSC	Biology
BTE	Business and Office Education
BUL	General Business Administration
CAP	Computer Service Courses, Computer Science and Engineering, Mathematics Education, Computers in Education, Content Specializations
CBH	Psychology
CCJ	Criminal Justice
CDA	Computer Service Courses, Computer Science and Engineering
CES	Civil Engineering and Mechanics
CGN	Civil Engineering and Mechanics
CGS	Engineering Technology
CHM	Chemistry
CHS	Chemistry
CIS	Computer Science and Engineering
CJT	Criminology
CLA	Ancient Studies (Religious Studies), Classics
CLP	Psychology
CLT	Classics
COC	Computer Service Courses, Computer Science and Engineering, General Business Administration, Information Systems and Decision Sciences
COE	Cooperative Education
COM	Communication
COP	Computer Service Courses, Computer Science and Engineering, Library, Media and Information Studies, Mathematics
COT	Computer Science and Engineering
CPO	African and Afro-American Studies, Political Science
CRW	English
CWR	Civil Engineering and Mechanics
DAA	Dance, Physical Education Elective
DAN	Dance
DEC	Distributive and Marketing Education
DEP	Psychology
EAS	Civil Engineering and Mechanics
ECH	Chemical and Mechanical Engineering
ECI	Civil Engineering and Mechanics
ECO	Economics
ECP	African and Afro-American Studies, Economics Public Health
ECS	Economics
EDA	Administration/Supervision
EDE	Curriculum, Elementary Education
EDF	Foundations, Measurement-Research Computers in Education
EDG	Art Education, Curriculum, Communication-Speech Communication, Elementary Education, Special Education
EDH	Higher Education
EDM	Curriculum
EDS	Elementary Education, Administration/Supervision
EEC	Elementary Education
EED	Special Education
EEL	Computer Science and Engineering, Electrical Engineering
EES	Civil Engineering and Mechanics
EEX	Special Education
EGC	Counselor Education, Rehabilitation Counseling

EGI	Special Education
EGM	Civil Engineering and Mechanics
EGN	Basic and Interdisciplinary Engineering
EIA	Industrial and Technical Education
EIN	Industrial and Management Systems Engineering
EIV	Industrial and Technical Education
ELD	Special Education
ELR	Electrical Engineering
EMA	Civil Engineering and Mechanics
EMC	Chemical and Mechanical Engineering
EML	Chemical and Mechanical Engineering
EMR	Special Education
ENC	English
ENE	Computers in Education, Content Specializations
ENG	English
ENL	English
ENU	Chemical and Mechanical Engineering
ENV	Civil Engineering and Mechanics
ENY	Zoology (Biology)
EPH	Special Education
ESE	Curriculum
ESI	Industrial and Management Systems Engineering, Computer Science, and Engineering
ESL	Linguistics
ETE	Engineering Technology
ETG	Engineering Technology
ETI	Engineering Technology
EUH	History
EUS	International Studies Program
EVI	Special Education
EVT	Industrial/Technical Education
EXP	Psychology
FIL	Mass Communications
FIN	Finance
FLE	Content Specializations Foreign Language Education, French (Language)
FOL	General Foreign Languages
FOW	Romance (Language)
FRE	French (Language)
FRW	French (Language)
GEA	Geography
GEB	Common Body of Knowledge, Economics, General Business Administration, Information Systems and Decision Sciences
GEO	Geography
GER	German (Language)
GEW	German (Language)
GEY	Gerontology
GIA	Government and International Affairs
GLY	Geology
GMS	Medical Sciences, Medicine
GRE	Greek (Classics), Religious Studies
GRK	Greek (Classics)
GRW	Greek (Classics)
HBR	Hebrew (Language)
HEB	Ancient Studies (Religious Studies)
HES	Content Specialization, Physical Education for Teachers, Public Health
HIS	History
HLP	Elementary Education
HSA	Public Health
HSC	Medicine, Public Health
HUM	African and Afro-American Studies, Humanities, Humanities Education
HUN	Nursing
HUS	Human Services
IDH	Honors Program
IDS	Honors Program, Liberal Studies, Off-Campus Term
INP	Psychology
INR	African and Afro-American Studies, International Studies Program, Political Science
ISM	Information Systems and Decision Sciences
ISS	African and Afro-American Studies, International Studies Program, Social Sciences Interdisciplinary
ITA	Italian (Language)
ITW	Italian (Language)
JPN	Japanese (Language)
JOU	Mass Communications
LAE	Curriculum, Elementary Education, English, English Education
LAH	History
LAS	International Studies Program
LAT	Latin (Language)
LEI	Physical Education for Teachers, Sociology
LIN	Communication, English, Linguistics
LIS	Library, Media and Information Studies
LIT	English, Women's Studies
LNW	Latin (Classics)
MAA	Mathematics
MAC	Mathematics
MAD	Mathematics
MAE	Content Specializations, Elementary Education, Mathematics, Mathematics Education
MAN	Foundation Courses in Business (Graduate), General Business Administration, Management
MAP	Mathematics
MAR	Marketing
MAS	Mathematics
MAT	Mathematics
MCB	Microbiology (Biology)
MEL	Medicine
MET	Geography
MGF	Mathematics
MHF	Mathematics
MIS	Military Science
MLS	Medical Technology
MMC	Mass Communications
MTG	Mathematics
MUC	Music
MUE	Elementary Education, Music Education
MUG	Music
MUH	Anthropology, Music
MUL	Music
MUN	Music
MUO	Music
MUS	Music
MUT	Music
MVB	Music
MVK	Music
MVP	Music
MVS	Music
MVV	Music
MVW	Music
NGR	Nursing, Public Health
NUR	Nursing
OCB	Marine Science
OCC	Marine Science
OCE	Geology, Marine Science
OCG	Marine Science
OCP	Marine Science
ORI	Communication
PAD	Public Administration
PCB	Biology, Marine Science, Microbiology (Biology), Zoology (Bioogy)
PEL	Physical Education Elective
PEM	Physical Education Elective

PEN	Physical Education Elective
PEP	Adult Education
PEQ	Physical Education Elective, Physical Education for Teachers
PET	Physical Education Elective, Physical Education for Teachers, Adult Education
PGY	Mass Communications, Art
PHH	Philosophy
PHI	Linguistics, Philosophy
PHM	African and Afro-American 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	African and Afro-American Studies, Political Science
PUR	Mass Communications
QMB	Information Systems and 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 and 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 and 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

UNIVERSITY-WIDE COURSES

COOPERATIVE EDUCATION

Associate Director: Ray Easterlin, *Assistant Director:* L. J. Berman

AEROSPACE STUDIES

Professor: Lt Col Clemens E. Uptmor; *Assistant Professors:* Capt Steven Hammock, 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 Howard M. Abney, Jr.; *Assistant Professors:* MJ Elton L. Fowler, MAJ J. A. Fraley, Jr., MAJ Richard B. Frysinger, CPT Michael S. O'Neil, CPT Gary R. Osblebo, CPT Peter T. Owen.

OFF-CAMPUS TERM

Director: Stuart Silverman; *Lecturer*: D. Keith Lupton.

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 EDUCATION (0)
PR: COE 4948. (S/U only.)

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 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. 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 MANAGEMENT AND LEADERSHIP-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 MANAGEMENT AND LEADERSHIP-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.

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.

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.)

HONORS PROGRAM

University Honors Students must take all of the following including 2 semesters of Honors Program Seminar and 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. Restricted to University Honors Students. 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. Restricted to University Honors Students. 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 (3)
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. This course is taken for 2 semesters.

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 developement 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. An optional two hour weekly Laboratory with emphasis on adventure skills, such as rappelling, physical training and weapons is offered.

MIS 1400 FUNDAMENTALS OF LEADERSHIP DEVELOPMENT (1)
Basic leadership techniques and principles, professional ethics, senior-subordinate relationships, leadership problems, basic counseling and management techniques. An optional two hour weekly laboratory with emphasis on adventure skills, such as rappelling, physical training and weapons is offered.

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. An optional two hour weekly Laboratory with emphasis on adventure skills such as rappelling, physical training, and weapons is offered.

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. An optional two hour weekly laboratory with emphasis on adventure skills such as rappelling, physical training and weapons is offered.

MIS 2610L LEADERSHIP LABORATORY (0)
Laboratory consists of a two hour block of instruction per week and directly supports classroom instruction. Instruction is centered around actual hands-on experience which develops the student's potential. Laboratory includes instruction on drill and ceremonies; customs and courtesies, tactics, weapons and other required subjects. (S/U only).

MIS 2940 INTENSIFIED BASIC SKILLS COURSE (4)
An intense summer program conducted at Fort Knox, Kentucky for six weeks. Designed as an alternative method to meet the prerequisites of the Advance Course for students who have no basic Military Science courses. (S/U only.)

MIS 3302 SMALL UNIT OPERATIONS (3)
Open to ROTC Contract Cadets only. 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. Students must attend a two hour Leadership Laboratory weekly.

MIS 3404 LEADERSHIP FUNDAMENTALS - TACTICS AND CAMP PREPARATION (3)
Open to ROTC Contract Cadets only. 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. Student must attend a two hour Leadership Laboratory weekly.

MIS 4002 ARMY AS A PROFESSION (2)
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)
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.

COLLEGE OF ARTS AND SCIENCES

AFRICAN AND AFRO-AMERICAN STUDIES

Director: F. U. Ohaegbulam; *Professor:* F. U. Ohaegbulam; *Associate Professor:* K. R. Glover; *Other Faculty:* P. Taylor.

AMERICAN STUDIES

Chairperson: J. B. Moore; *Professors*: J. B. Moore, R. E. Snyder; *Associate Professor:* R. A. Banes; *Assistant Professor:* P. J. Brewer; *Other Faculty:* S. A. Zylstra.

ANTHROPOLOGY

Chairperson: R. T. Grange, Jr.; *Professors:* M. V. Angrosino, R. T. Grange, Jr., G. Kushner, A. Shiloh, J. R. Williams, A. W. Wolfe; *Associate Professors:* R. D. Baer, S. D. Greenbaum, J. J. Smith, P. Waterman, N. M. White, L. M. Whiteford, C. W. Wienker; *Assistant Professors:* S. B. Burkhalter, L. Madrigal; *Courtesy Faculty:* C. Bryant, J. Coreil, N. Henderson, 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 and Behavioral Sciences).

BIOLOGY

Chairperson: M. R. Alvarez; *Professors:* M. R. Alvarez, S. S. Bell, B. C. Cowell, C. J. Dawes, F. E. Friedl, G. W. Hinsch, J. M. Lawrence, D. V. Lim, R. L. Mansell, E. D. McCoy, R. Richmond, G. G. Robinson, J. T. Romeo, W. S. Silver, J. L. Simon, S. L. Swihart, D. Testrake, G. E. Woolfenden, R. P. Wunderlin; *Professors Emeriti:* N. McClung, G. E. Nelson; *Associate Professors:* G. W. Arendash, J. V. Betz, B. C. Cochrane, M. L. Dao, F. I. Eilers, F. B. Essig, H. R. Mushinsky, M. J. Saunders; *Assistant Professors:* D. D. Dunigan, S. Edwards, P. Motta, G. J. Stewart, P. Stiling, A. Wells; *Lecturers:* C. Hendry, A. A. Latina.

CHEMISTRY

Chairperson: S. W. Schneller; *Graduate Research Professor:* R. M. Castle; *Professors:* J. S. Binford, Jr., R. S. Braman, J. C. Davis, Jr., J. E. Fernandez, G. R. Jurch, Jr., L. Mandell, D. F. Martin, P. C. Maybury, G. Meisels, G. R. Newkome, E. D. Olsen, T. C. Owen, D. J. Raber, S. W. Schneller, T. W. G. Solomons, B. Stevens, 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, E. Wickstrom; *Assistant Professors:* A. T. D'Agostino, R. L. Potter, T. B. Scheffler; *Research Assistant Professor:* A. S. Zektzer; *Adjunct Faculty:* J. A. Barltrop; *Courtesy Faculty:* M. Ben, R. Benson, D. P. Borris, R. Conan, B. B. Martin, W. Menyhert, J. W. Palmer, L. H. Garcia-Rubio, W. E. Swartz, Jr.

CLASSICS

Chairperson: A. L. Motto; *Professor:* A. L. Motto; *Associate Professor:* J. D. Noonan; *Assistant Professors:* J. S. Campbell, S. R. Mandell; *Courtesy Professor:* A. Starr; *Other Faculty:* J. R. Clark, W. M. Murray, J. F. Strange, G. K. Tipps.

COMMUNICATION

Chairperson: A. P. Bochner; *Professors:* A. P. Bochner, P. J. Newcombe, L.S. Pettegrew, R. J. Schneider; *Associate Professors:* K. N. Cissna, B. F. Downs, C. J. Jablonski, N.C. James, A. D. Payne, M. L. Vanderford; *Assistant Professors:* M. G. Garko, M. Neumann; *Other Faculty:* D. H. Smith.

COMMUNICATION SCIENCES AND DISORDERS

Chairperson: A. M. Guilford; *Professors:* J. Davis, 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:* R. L. Carlson, N. Diss, C. Fernandez, M. Witkind; *Distinguished Professor:* S. O. Richardson; *Other Faculty:* W. T. Collins, K. Hollahan, B. Loeding, N. Mahecha.

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, J. T. Reilly, M. Vega; *Assistant Professors:* C. Greek, T. Mieczkowski, C. Sellers, L. Smith, R. M. Stanford; *Courtesy Appointment:* C. Wienker; *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, R. S. Pawlowski, W. D. Reader, J. P. W. Rogers, W. T. Ross, S. J. Rubin, W. H. Scheuerle, E. E. Smith, D. A. Wells; *Associate Professors:* A.G. Bryant, R. E. Chisnell, R. M. Figg III, R. E. Hall, M. C. Harmon, W. J. Heim, J. W. Holman, E. A. Metzger, J.M. Moxley, G. A. Olson, N. J. Tyson, R. D. Wyly, Jr. *Assistant Professors:* R. M. Baum, P. J. Collins, R. L. Hewitt, F. T. Mason, P. J. Sipiora, J. D. Walther, 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:* R. Brinkmann, M. B. Lindberg; *Lecturer:* R. C. Holmes.

GEOLOGY

Chairperson: M. T. Stewart; *Professors:* R. A. Davis, Jr., M. T. Stewart, S. B. Upchurch; *Associate Professors:* M. J. Defant, H. L. Vacher; *Assistant Professors:* W. D. Allmon, L. L. Robbins; *Courtesy Faculty: Professor:* R. B. Halley, A. Rosenzweig, A. H. Sallenger; *Research Associates:* P. E. Desautels, B. W. Leyden, G. Schwartzman, T. M. Scott, R. Stewart; Assistant Curators: B. R. Marcin, E. J. Marcin.

GERONTOLOGY

Chairperson: L. C. Mullins; *Professors:* J. I. Kosberg, L. C. Mullins, T. A. Rich, S. V. Saxon, H. Sheppard; *Associate Professors:* J. L. Garcia, W. P. Mangum; *Assistant Professor:* K. Sohn; *Adjunct Professors:* P. Babiarz, C. Barresi, K. Bates, B. Burton, D. Burr, M. Etten, P. Walters; *Visiting Vaculty:* W. Vasey.

HISTORY

Chairperson: R. P. Ingalls; *Graduate Research Professor:* L. A. Perez, Jr.; *Professors:* R. O. Arsenault, J. M. Belohlavek, C. B. Currey, R. P. Ingalls, S. F. Lawson, G. H. Mayer, G. R. Mormino; *Associate Professors:* D. R. Carr, T. P. Dilkes, N. A. Hewitt, G. H. Kleine, W. M. Murray, K. A. Parker, E. M. Silbert, J. M. Swanson; *Assistant Professors:* G. Benadusi, G. K. Tipps, R. J. Van Neste; *Other Faculty:* C. W. Arnade.

HUMANITIES

Chairperson: A. J. Sparks; *Professors:* C. B. Cooper, S. L. Gaggi, T. B. Hoffman, H. Juergensen, G. S. Kashdin (Emeritus), E. M. MacKay (Emeritus), D. Rutenberg, A. J. Sparks, S. A. Zylstra; *Assistant Professor:* J. D'Emilio; *Courtesy Professor:* Laszlo J. Hetenyi.

HUMAN SERVICES

Coordinator: L. C. Mullins; *Professors:* J. I. Kosberg, T. A. Rich, T. J. Northcutt, Jr., S. V. Saxon; *Associate Professors:* J. L. Garcia, W. P. Mangum.

INTERDISCIPLINARY SOCIAL SCIENCES

Director: M. Myerson; *Professors:* L. L. McAlister, J. Ochshorn, F. U. Ohaegbulam, S. M. D. Stamps, Jr.; *Associate Professors:* K. R. Glover, M. Myerson, J. B. Snook; *Assistant Professors:* J. E. Borchert, E. B. Breit, K. Vaz; *Visiting Assistant Professors:* R. Gagan, B. Radford-Curry.

INTERNATIONAL STUDIES

Director: M.M. Amen; *Professors:* C. W. Arnade, H. W. Nelsen, M. T. Orr; *Associate Professors:* M. M. Amen, R. Barylski, A. Hechiche, S. M. Northcutt, D. Slider; *Assistant Professors:* E. Conteh-Morgan, P. Ruffin; *Assistant Professor Emeritus:* J. W. Palm; *Joint Appointments: Professors* F. J. Ohaegbulam, S. D. Stamps, H. Vanden; *Associate Professor:* K. R. Glover, R. Khator; *Assistant Professor*: M. Milani.

LANGUAGE

Director: R.W. Cole; *Professors:* G. A. Brulotte, C. W. Capsas, R.W. Cole, D. Ierardo, E. J. Neugaard, V. E. Peppard, R. A. Preto-Rodas, R. A. Stelzmann, C. E. Scruggs; *Associate Professors:* C. J. Cano, R. A. Cherry, Jr.,M. Esformes, W. H. Grothmann, W. R. Hampton, C. M. Probes, J. C. Tatum,.

LINGUISTICS

Professors: C. J. Cargill, R. W. Cole, R. C. O'Hara; *Associate Professor:* J. C. Caflisch.

MARINE SCIENCE

Chairperson: P. R. Betzer; *Professors:* N. J. Blake, R. H. Byrne, K. L. Carder, L. J. Doyle, K. A. Fanning, G. R. Gust, P. Hallock-Muller, A. C. Hine, T. L. Hopkins, 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:* B. Galperin, J. H. Paul, G. A. Vargo; Assistant Professors: J. S. Compton, M. E. Luther, F. Muller-Karger, D. F. Naar, R. R. Wilson, Jr.; *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

Chairperson: D. L. Dickerson; *Professors:* M. R. Garcia, R. L. Kerns, G.M. Killenberg, M. Lucoff; *Associate Professors:* D. S. Bagley III, T. M. Counts, D. L. Dickerson, W. G. Fudge, N. C. James, H. Regis; *Assistant Professors:* K. F. Brown, L. Z. Leslie, R. Miller, G. Werner, R. Wilber; *Lecturers:* W. F. Moyse, D. Togie Jr; *Professors Emeriti:* W. E. Griscti, 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, D. R. Walbolt, J. E. Young.

MATHEMATICS

Chairperson: K. L. Pothoven; *Distinguished Service Professor:* A. W. Goodman; *Graduate Research Professor:* E. B. Saff; *Professors:* W. E. Clark, M. Ismail, A. G. Kartsatos, S. J. Lee, J. J. Liang, Y. F. Lin, M. N. Manougian, A. Mukherjea, A. N. V. Rao, J. S. Ratti, V. Totik, C. P. Tsokos, C. A. Williams; *Professors Emeritus:* J. R. Britton, D. C. Rose; *Associate Professors:* R. W. R. Darling, S. Isaak, S. Y. Lin, M. M. McWaters, R. K. Nagle, M. E. Parrott, K. L. Pothoven, J. H. Reed, B. Shekhtman, W. R. Stark, E. A. Thieleker, F. J. Zerla; *Assistant Professors:* G. L. McColm, R. W. Oberste-Vorth, J. F. Pedersen, K. M. Ramachandran, W. E. Williams, Y. You.

MEDICAL TECHNOLOGY

Director: E. D. Olsen; *Professors:* F. E. Friedl, E. D. Olsen; *Associate Professor:* S. H. Grossman, D. T. Testrake; *Assistant Professors:* D. D. Dunigan, R. L. Potter; *Courtesy Professors:* K. W. Barwick (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:* G. Atz (Baptist Medical Center), P. DiStefano (Tampa General Hospital), W. M. Duquette (Mt. Sinai Medical Center), L. Peel (Bayfront Medical Center), A. Plagge (Tallahassee Memorial Regional Medical Center), P. Rogers (Florida Hospital), J. D. Sigler (University Medical Center/ Jacksonville).

PHILOSOPHY

Chairperson: J. A. Bell; *Professors:* J. P. Anton, J. A. Gould, L. L. McAlister, K. S. Shrader-Frechette, B. Silver, W. H. Truitt, S.P. Turner, R. C. Weatherford, K. Wiredu; *Professor Emeritus:* C. H. Chen; *Associate Professors:* J. A. Bell, R. N. Taylor, J.B. Waugh; *Courtesy Associate Professor:* M. Myerson; *Courtesy Professors:* D. J. Fasching, W. M. Shea.

PHYSICS

Chairperson: S. Sundaram; *Professors:* S. C. Bloch, S. R. Deans, N. Djeu, 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 Professor:* Pritish Mukherjee, S. Witanachchi; *Lecturer:* D. D. Spurgin.

POLITICAL SCIENCE

Chairperson: S. MacManus; *Professors:* R. L. Bowman, R. A. Factor, S. MacManus, H. E. Vanden; *Associate Professors:* J. E. Benton, K. R. Glover, W. E. Hulbary, A. E. Kelley, R. M. Khator, A. B. Levy, D. G. Paulson, P. N. Rigos; *Assistant Professors:* M. T. Gibbons, M. M. Milani, L. W. Morehouse; *Other Faculty:* J. B. Snook.

PSYCHOLOGY

Chairperson: L. A. Penner; *Graduate Research Professors:* J. J. Jenkins, H. D. Kimmel, C. D. Spielberger; *Professors:* J. M. Anker, W. C. Borman, J. L. Brown, R. Fowler, S. A. Garcia, 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, 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, J. M. Clingman, M. D. Coovert, M. A. Finkelstein, D. McGuiness, W. P. Sacco, J. K. Thompson; *Assistant Professors:* T. M. Brannick, W. C. Chambers, C. R. Cimino, T. Sanocki, S. Schneider-Wright; *Courtesy, Adjunct, and Joint Appointments:* K. E. Achenbach, H. P. Bahrick,H. B. Clark, M. E. Clark, M. T. Dickey, M. G. Dow, J. A. Eison, G. Greeley, K. Jenkins-Hall, H. R. S. Hall, W. L. Hartman, E. B. Kimmel, M. D. Knox, W. E. Lee III, C. L. McEvoy, D. McKinstry, K. McNelis, J. Robyak, E. Salas, L. Schonfeld, W. P. Schultz, D. V. Sheehan, O. Skalkos, A. A. Smith, L. Smith,T. F. Stokes, T. J. Tracey, R. Vanderploeg, S. Walfish, I. R. Weiner, H. C. West, G. L. Wood, L. Zheutlin.

PUBLIC ADMINISTRATION

Professors: J. E. Jreisat, S. A. MacManus, D. C. Menzel; *Assistant Professors:* J. L. Daly, M. Y. Mongkuo, D. Rahm.

REHABILITATION COUNSELING

Chairperson: C. M. Pinkard; *Professors:* J. F. Dickman, W. G. Emener, J. D. Rasch; *Associate Professors:* P. Gross, M. J. Landsman, C. M. Pinkard, T. J. Wright.

RELIGIOUS STUDIES

Chairperson: W. C. Tremmel; *Professors:* D. J. Fasching, N. Katz, W. M. Shea, J. F. Strange, W. C. Tremmel; *Graduate Research Professor:* J. Neusner; *Associate Professor:* M. G. Mitchell; *Visiting Instructor:* C. Kilgore; Other Faculty: J. S. Hatcher, E. E. Smith.

SOCIAL WORK

Chairperson: B. L. Yegidis; Professor: T. J. Northcutt, Jr.; *Associate Professors*: J. A. Giordano, T. U. Hancock, W. S. Hutchison, Jr., A. A. Smith, P. L Smith, R. J. Wilk, B. L. Yegidis; *Assistant Professors*: E. B. Breit, P. A. d'Oronzio, C. S. Roberts, K. Sohn; *Courtesy Faculty*: Professor: J. I. Kosberg; *Associate Professor*: M. L. Coulter.

SOCIOLOGY

Chairperson: D. Harper; *Professors:* R. G. Francis, E. G. Nesman, D. Harper, R. H. Wheeler; *Associate Professors:* G. A. Brandmeyer, C. S. Ellis, B. G. Gunter, R. A. Hansen, M. B. Kleiman, H. A. Moore; *Assistant Professors:* J. Friedman, L. W. Kutcher, Marco Orru.

WOMEN'S STUDIES

Coordinator: J. B. Snook; *Professors:* L. L. McAlister, J. Ochshorn; *Associate Professors:* M. Myerson, J. B. Snook; *Assistant Professors:* J. E. Borchert, E. B. Breit, K. Vaz; *Courtesy Associate Professors:* R. A. Banes, L. M. Whiteford.

AFRICAN AND AFRO-AMERICAN STUDIES

AFA 2001 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 GHETTO (3)
A study of social institutions as they relate to the American Black ghetto, with emphasis on social systems operating within and on the ghetto.

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 INTRODUCTION TO AFRICAN HISTORY (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.)

AMH 3571, 3572 AFRO-AMERICAN HISTORY (3, 3)
A survey of the Afro-American history in the Western Hemisphere. Emphasis on the experience in North America (AMH 3571, 1493-1865; AMH 3572 1865-to present.)

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 3420 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.

PHM 4120 CONTEMPORARY BLACK PHILOSOPHY (3)
Major themes and participants in the Black liberation movement since 1900.

PUP 3313 MAJOR BLACK THINKERS (3)
Survey of major themes of black leaders of thought and participants in the global black liberation movement.

AMERICAN STUDIES

AMS 2363 ISSUES IN AMERICAN CIVILIZATION (2)
Through lecture and demonstration an examination of such topics 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. 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. Should be taken the first term a student becomes an American Studies major. Elective for non-majors.

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. Elective for non-majors.

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. Elective for non-majors. 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. Elective for non-majors.

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 environ-

ment 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 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.

AMS 3930 SELECTED TOPICS IN AMERICAN STUDIES (1-4)
Offerings include Cultural Darwinism in America, America Through Foreign Eyes, Material Culture in American Society, and The Female Hero in American Culture.

AMS 4910 INDIVIDUAL RESEARCH (1-4)
The content of the course will be governed by student demand and instructor's interest. Instructor's approval required prior to registration.

AMS 4930 SELECTED TOPICS IN AMERICAN STUDIES (1-4)
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.PR: Senior in American Studies or CI.

AMS 4935 SENIOR SEMINAR IN AMERICAN STUDIES (4)
PR: Senior in American Studies or CI.

AMS 4936 SENIOR SEMINAR IN AMERICAN STUDIES (4)
PR: AMS 4935 or CI.

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 3005 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 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 4326 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.

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 4542 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 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 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 4586 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 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 subdisciplinary 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 4521 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.

BIOLOGY

APB 1150 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.

APB 2130 ENVIRONMENT (3)
The application of basic principles of ecology to relevant problems and topics relating to man's environmental interaction through consideration of scientific and popular literature. For non-majors. May be taken by majors for free elective credit.

APB 2140 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.

APB 2250 SEX, REPRODUCTION AND POPULATION (3)
The application of basic biological principles from subject areas to relevant problems and topics through the consideration of scientific and popular literature. For non-majors. May be taken by majors for free elective credit.

APB 3110 MAN, MICROBE AND MOLECULE (3)
PR: APB 1150. 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.

BOT 2010C FUNDAMENTALS OF BOTANY (4)
PR: BSC 2010C. Cell division, genetics, reproduction and development, physiology. Lec.-lab. (Spring & Fall).

BCS 2010 FUNDAMENTALS OF BIOLOGY I (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 Fundamentals of Biology II (BSC 2011). This course is restricted to majors and has a laboratory associated with the lecture.

BSC 2011 FUNDAMENTALS OF BIOLOGY II (4)
PR: CHM 2045. 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 coruse is restricted to majors and has a laboratory associated with the lecture.

BSC 2932 SELECTED TOPICS IN BIOLOGY (1-4)
May be repeated.

BSC 3263 INTRODUCTION TO 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 College of Natural Sciences 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.

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 4064 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 5235C PRINCIPLES OF IMMUNOLOGY (3)
PR: PCB 3023 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 4043. 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 5525C 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 5615 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 5835C 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 mamalian brain's structure and function, with an emphasis on the neuroanatomy, neuropharmacology, and neurophysiology of the human brain.

Botany

BOT 3143C FIELD BOTANY (3)
PR: BOT 3373. 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 3373 VASCULAR PLANTS: FORM AND FUNCTION (4)
PR: BSC 2010, BSC 2011. Introduction to the morphology, adaption and evolution of vascular plants, integrating form and function to understand diversity.

BOT 3810 ECONOMIC BOTANY (3)
PR: BOT 3373. Study of the uses of plants by man for food, chemicals, fibers, and medicines. Open to majors and non-majors.

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 4223C PLANT ANATOMY (3)
PR: BOT 3373. 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 3373 or MCB 3030. 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 3373. Identification and classification of the more interesting vascular plants of Florida; angiosperm evolution; principles of taxonomy. Conducted largely in the field. Lec.-lab. (Fall semester, odd years).

BOT 4850 MEDICAL BOTANY (3)
PR: BSC 2010, BSC 2011, 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 4933 SEMINAR IN BOTANY (1)
PR: Senior or advanced junior standing. May be repeated once. (S/U only. Spring & Fall semesters, irregular).

BOT 5156 TAXONOMY OF FLORIDA VASCULAR PLANTS (3)
PR: BOT 3143C OR BOT 4713C or CI. Identification of native and naturalized vascular plants of Florida; species composition of major plant communities. Field trips emphasized. Lec.-lab.

BOT 5185C MARINE BOTANY (3)
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.

BOT 5605 PLANT ECOLOGY (3)
PR: BOT 3373, PCB 4043C. An introduction to the Principles of Physiological Ecology, Population Biology and Community Ecology as Applied to Plants. Field Investigations of Florida Plant Communities. Lecture/field trip.

BOT 5725C EVOLUTION OF FLOWERING PLANTS (3)
PR: BOT 4713C. A phylogenetic study of Angiosperms; relationship of the principal orders and families, problems of nomenclature, identification of specimens, comparisons of recent systems of classification, dissection of representative flower types. Field trips and lab work. Lec.-lab. (Spring semester, even years).

BOT 5938 SELECTED TOPICS IN BOTANY (1-3)
Each topic is a course in directed study under supervision of a faculty member.

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 4486 EXPERIMENTAL MICROBIOLOGY (2)
PR: MCB 4505C and PCB 4233. This course is designed to develop practical laboratory skills and the concepts of experimental analysis in virology, and microbial genetics for microbiology students.

MCB 4505C 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 pathogeneses, and interactions with host cells.

MCB 4652C 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 microbic hosts from cellular, biochemical, evolutionary and ecological perspectives.

MCB 5815C MEDICAL MYCOLOGY (3)
PR: MCB 3030C. A survey of the yeasts, molds, and actinomycetes most likely to be encountered by the bacteriologists, with special emphasis on the forms pathogenic for man.

MCB 5936 SELECTED TOPICS IN MICROBIOLOGY (1-3)
Each topic is a course in directed study under supervision of a faculty member.

Zoology

APB 3190 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 3203 OR ZOO 3823C. 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 4184C HISTOLOGY (4)
PR: BSC 2010C, BSC 2011C. Comparative approach to the study of tissues and the relation of their structure and function. Lec.-lab.

PCB 4743C 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.

PCB 5335C BIOGEOGRAPHY (3)
PR: One year major's Biology. Principles and general patterns of terrestrial and marine animal and plant distributions.

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. (Spring Sem.)

ZOO 4503C 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 4693 ANIMAL EMBRYOLOGY (4)
PR: PCB 3023C. Structural and functional events involved in differentiation and morphogenesis. 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 standing, BSC 2010, BSC 2011. PCB 4674 and ZOO 3713 suggested. Evolution, stematic, 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 (3)
PR: High school chemistry and two years of high school mathematics including algebra are recommended. An introduction to the principles and applications of modern chemistry including the properties of matter, quantitative relations in chemical reactions, technological aspects and societal impact.

CHM 2041 GENERAL CHEMISTRY I (3)
PR: Satisfactory score on placement exam; 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 2041or CHM 2045 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 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: 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 3402C 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 PHY3049. 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)
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 -6A (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.

GRK 3120 BEGINNING MODERN GREEK I (4)
An intensive study of basic skills; pronunciation, listening comprehension, speaking and some composition.

GRK 3121 BEGINNING MODERN GREEK II (4)
PR: GRK 3120 or its equivalent. A continuation of GRK 3120.

GRW 4905 DIRECTED READING (1-4)
Departmental approval required.

GRW 5905 DIRECTED READING (1-4)
Departmental approval required.

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. Available to majors and non-majors.

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 5123 COMMUNICATION ASSESSMENT IN ORGANIZATIONS (3)
PR: for undergraduates, COM 3120 or CI; graduates, CI. A study of the means by which the communication specialist intervenes in organizational behavior. An emphasis is placed on gathering and analyzing organizational communication data.

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 5145 PERFORMANCE OF DRAMA II (3)
PR: ORI 4140. A study of selected pre-modern dramas with special emphasis on problems of interpretation for oral performance.

ORI 5215 PERFORMANCE OF CHILDREN'S LITERATURE (3)
PR: ORI 3000 or CI. A study of the theories and practice in the oral interpretation of poetry and narrative fiction for children with special emphasis on classical and modern literature.

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 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 3594 FORENSICS (1)
Study, library research, practice in public speaking situations on campus and in intercollegiate forensic competition. May be repeated (maximum of four hours).

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. Open to majors and non-majors.

SPC 4653 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 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 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 5335 NONVERBAL COMMUNICATION (3)
PR: Senior standing and CI. A survey of scientific and pragmatic research in nonverbal behavior relating to communication.

SPC 5912 RESEARCH (1-4)
PR: Senior or graduate standing and CI.

SPC 5933 SELECTED TOPICS (1-4)
PR: Senior or graduate standing. Undergraduates must have minimum GPA 3.0, 15 hours of core requirements and 9 elective hours completed, and CI.

COMMUNICATION SCIENCES AND DISORDERS

SPA 3002 INTRODUCTION TO DISORDERS OF SPEECH AND LANGUAGE (3)
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)
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: 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)
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 (2)
PR: 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. 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)
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)
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)
Observation and participation in speech-language pathology and audiology practicum in the University clinical laboratory.

SPA 4201 PHONOLOGICAL DEVELOPMENT AND DISORDERS (3)
PR: CI. 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: CI. A comprehensive study of the medical and physical aspects of voice disorders. Primary emphasis is on therapeutic management.

SPA 4222 FLUENCY DISORDERS (3)
PR: CI. 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)
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. Must be taken with SPA 5150L: Speech Science Laboratory. 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 5401 LANGUAGE LEARNING IN THE SCHOOL-AGE YEARS (3)
PR: Psych Lang Develop or equiv; PI. Metalinguistic and metacognitive development are linked to the interactional demands of classroom and clinical discourse; observational tools are applied to evaluation and intervention planning.

SPA 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 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: Admission to program; 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)
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 CRIMINAL LAW I (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 LAW II (3)
PR: CCJ 3280. 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 3620 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 3620, 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 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, GEB 3121, or STA 3023.

***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 CRIMINAL JUSTICE (3)
PR: Senior standing and CI. This variable topic seminar will consider the various changes occurring in the field of criminal justice with added emphasis on career responsibilities in the field.

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.)

CJT 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.

CJT 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.

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 examinatin 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 MODERN LITERATURE, FILM, AND THE POPULAR ARTS (3)
A study of particular films and novels that shows us how such popular arts as the detective story, westerns, science fiction, spy stories, and musical comedy have changed. The course also explores why important changes took place,and considers how and why many serious writers and filmmakers today use techniques, ideas and situations drawn from the popular arts.

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 4340 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 4370 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 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.

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 3931 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 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 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.

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 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 3013 SYSTEMATIC GEOGRAPHY (4)
Principles and concepts of the discipline; maps, earth-sun relations, weather, and climate.

GEO 3014 SYSTEMATIC GEOGRAPHY (4)
PR: GEO 3013. Continuation of GEO 3013; soil, water, rocks, minerals, 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 3901 ELEMENTS OF GEOGRAPHY (1)
Independent study; various topics in physical and cultural geography. (S/U only.)

GEO 3931C WEATHER AND MAN (4)
The interrelationship between the atmospheric environment and man.

GEO 4040C MAP INTERPRETATION (4)
PR: GEO 3014. Analysis and synthesis of various types of maps and map projections.

GEO 4100C CARTOGRAPHY (4)
PR: GEO 3014. Map compilation and graphic presentation.

GEO 4114C GEOGRAPHIC TECHNIQUES AND METHODOLOGY (4)
PR: GEO 3014. Selected topics in various geographic techniques and methodologies and their application.

GEO 4124C AIR PHOTO INTERPRETATION (4)
PR: GEO 3014. Detection, identification, and analysis of objects on the earth's surface. Techniques other than photographic are also considered.

GEO 4164C QUANTITATIVE METHODS (4)
PR: GEO 3014. Statistical analysis in geographic research.

GEO 4201C PHYSICAL GEOGRAPHY (4)
PR: GEO 3014 Intensive study of a topic selected from physical geography.

GEO 4210 GEOMORPHOLOGY (4)
PR: GEO 3014. Origin, evolution, and distribution of the landforms of North America.

GEO 4280C HYDROLOGY (4)
PR: GEO 3014. Hydrologic cycle; precipitation, evapotranspiration, water budget, streamflow, and probability analysis.

GEO 4340 MAN AND 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 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 3014. The interrelationships of culture and nature, from pre-historic times to the present.

GEO 4440 POPULATION GEOGRAPHY (4)
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)
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 3014. The geographic factors underlying political decisions and influencing their outcome; the geographic consequences of these decisions; geopolitics.

GEO 4502 ECONOMIC GEOGRAPHY (4)
PR: GEO 3014. The spatial organization of economic production, consumption, and exchange systems.

GEO 4602 URBAN GEOGRAPHY (4)
PR: GEO 3014. Spatial analysis of urban areas; growth, location, spacing, and size. Development, site, situation, internal structure, and hinterland are considered.

GEO 4700 TRANSPORTATION GEOGRAPHY (4)
PR: GEO 3014. 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 CC prior to registration. May be repeated.

GEO 4910 INDIVIDUAL RESEARCH (1-4)
PR: 20 hours in geography and CC 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 (formerly GLY 2016) PHYSICAL GEOLOGY (4)
Study of minerals, rocks, and processes of the earth's crust. Introduction to origin and classification of earth's materials and landforms. Lec.-lab.

GLY 2100 EARTH HISTORY (4)
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. Lec.-lab.

GLY 2850 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 for geology majors.

GLY 2930 SELECTED TOPICS IN GEOLOGY (1-3)
Topical courses in geology of general interest. Does not count toward the geology major.

GLY 3006 GEOLOGY OF OUR NATION'S PARKS (3)
Representative national, state, and local parks are used to illustrate fundamental concepts of geology, hydrology, and the environment. For non-science majors. No credit for geology majors.

GLY 3200 MINERALOGY (3)
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 3220 OPTICAL MINERALOGY (3)
PR: GLY 2010, one year of chemistry, or CI. Principles and theory of the behavior of light within minerals and the identification of minerals using the polarizing microscope. Lec.-lab. Restricted to majors and minors in geology.

GLY 3400 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 3610 INTRODUCTION TO INVERTEBRATE PALEONTOLOGY (4)
PR: GLY 2100. BSC 2010C or equivalent srongly 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 3830 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 4200 PETROLOGY (3)
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 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 ot 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 4555 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 statistical 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 4750 FIELD METHODS (3)
PR: 12 hours of geology courses or CI. Fundamentals of geology in the field; compass and plane table mapping, mapping on aerial photos, reconnaissance surveys, interpretation of geologic structure. Lec.-lab.-field trips.

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 4816 ECONOMIC MINERAL DEPOSITS (3)
PR: 16 hours of geology or CI. Principles involved in the origin, occurrence, recovery, and use of mineral resources. Lec.-lab.-field trips.

GLY 4820 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. Required of all senior geology majors, to be repeated for a total of two credit hours. (S.U only)

GLY 4930 SELECTED TOPICS IN GEOLOGY (1-4)
Each topic is a course under the direction of a faculty member with the content depending on the interests of the students and faculty involved. All areas of geology included. Departmental permission required prior to registration.

GLY 4970 UNDERGRADUATE HONORS THESIS (3)
Open to seniors admitted to the Geology undergrduate 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.

OCE 3001 INTRODUCTION TO OCEANOGRAPHY (3)
Overview of biological, chemical, geological, and physical oceanography. Does not count as a Geology elective. (Also listed under Marine Science.)

GLY 5241 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 5245 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 5310 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 5450 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 5825 ADVANCED HYDROGEOLOGY (4)
PR: GLY 4820, 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 5890 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.

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, or CI. 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 or CI. 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)
PR: CI. 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 or CI. 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 4930 SENIOR SEMINAR (2)
PR: CI. This course will provide upper level students with a seminar experience in discussing topics of interest and social relevance in the field of aging. Each student will be required to prepare a seminar paper and present it.

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)
PR: CI. Examines, within a sociological frame of reference, the interrelationships between the aged (or aging) and the structure and function of the social systems and its major institutionalized subsystems.

GEY 5630 ECONOMICS AND AGING (3)
PR: CI. 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)
PR: CI. 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.

HISTORY

AFH 3100 INTRODUCTION TO AFRICAN HISTORY (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 Afro-American 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 Afro-American 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, demogoguery 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 3428 TAMPA HISTORY (3)
Emphasizing the post-Civil War period, examines the origins of Tampa and the factors which made Tampa the center of a growing metropolitan area. The Tampa past will be studied against the state, national, and international developments.

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 - 6A (3)
The development of American Foreign Relations in the Agricultural era.

AMH 3511 U.S. DIPLOMATIC HISTORY IN THE 20TH CENTURY -6A (3)
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 oldworld 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 European, 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 1668 (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: CI. 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: CI. 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.

WOH 3270 REVOLUTIONS IN THE MODERN WORLD -6A (4)
A comparative study of the major revolutions in world history. Emphasis is placed on the testing of various theories and models of the revolutionary process in the context of concrete historical examples.

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 (4)
PR: WST 2010, or WST 3011, or CI. The female experience in America, in historical context, viewed through the writings of various classes, races, ethnic groups. Current research on American women by feminist historians. (May also be taken for credit in Women's Studies.)

WST 4310 FEMINISM IN AMERICA (4)
PR: WST 2010, or WST 3011, or CI. 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)
Analyses of selected works of film, literature, music, and visual arts, including a variety of periods, nationalities and art forms, emphasizing artistic diversity. Especially recommended for students intending to take 4000-level Humanities courses at a future date.

HUM 3214 STUDIES IN CULTURE: THE CLASSICAL AND MEDIEVAL PERIODS (3)
Analyses of selected works of classical and medieval architecture, drama, sculpture, intellectual prose, and other art forms. Typical course focus is on architecture, drama, and intellectual prose.

HUM 3243 STUDIES IN CULTURE: THE RENAISSANCE AND THE NINETEENTH CENTURY (3)
Analyses of selected fiction, drama, painting, architecture, music and other art forms.

HUM 3251 STUDIES IN CULTURE: THE TWENTIETH CENTURY (3)
Analyses of selected works of twentieth century art, primarily emphasizing film, with secondary emphasis on painting and fiction.

HUM 3271 THE CULTURE OF THE EAST AND WEST I (4)
Masterpieces of music, visual arts, theatre, literature, and philosophy in varying cultural and historical situations.

HUM 3273 THE CULTURE OF THE EAST AND WEST II (4)
Masterpieces of music, visual arts, theatre, literature, and philosophy in varying cultural and historical situations.

HUM 3580 CURRENT SCENE (2)
Live performances in contemporary media will be followed by discussions. The course will emphasize recent developments in the arts with some special attention to current innovations. (S/U only.)

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 the 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 theologicans, 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 -6A (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 -6A (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 -6A (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 the 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 (4)
PR: Humanities major or CI; Senior standing. Discussion of interdisciplinary humanities. Includes essay. (Fall term only.)

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.

HUMAN SERVICES

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 (formerly MHT 4302) INTERVIEWING (3)
PR: HUS 3001 or CI. 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.

HUS 4700 PLANNING AND EVALUATION OF HUMAN SERVICES PROGRAMS (3)
PR: HUS 3001 or CI. Review of approaches to planning, coordination, and evaluation of human services programs in health, rehabilitation, welfare and community action programs. Applications of planning and evaluation techniques.

HUS 5325 INTERVENTION TECHNIQUES (3)
PR: HUS 3001 or CI. Attention will be given to techniques of intervention at individual, small group, and community levels. The need for crisis intervention programs in modern society.

SOW 4332 COMMUNITY ORGANIZATION AND DEVELOPMENT (3)
PR: HUS 3001 or CI. An interdisciplinary approach to community organization and development. A synthesis of social, cultural, psychological, economic, and political information concerning community structure and change.

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:

ASN 3030 THE MIDDLE EAST (3)
EUS 3000 EUROPE (3)
LAS 3002 LATIN AMERICA (3)

AFA 4150 AFRICA AND THE UNITED STATES (3)
ASN 3012 JAPAN TODAY (3)
ASN 3014 CHINA TODAY (3)
EUS 3022 SOVIET UNION TODAY (3)
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 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 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 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.
ISS 1211 WORLD PERSPECTIVE (3)
An interdisciplinary study of the international system, major world regions and problems.
ISS 2221 U. S. FOREIGN POLICY (3)
A multidisciplinary study of America's role in world affairs, emphasizing current problems and issues in the formulation and implementation of foreign policy.
ISS 3260 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.
ISS 3242 INTERNATIONAL TERRORISM (3)
A study of contemporary international terrorism and its causes, ranging from national liberation movements to networks of philosophical anarchists.
ISS 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.
ISS 3955 OVERSEAS STUDY (1-6)
A program of individual or group research in a foreign country.
ISS 4250 THE EMERGING NATIONS (3)
A multidisciplinary study of the efforts of third world nations to improve their status through economic development.
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 4931 SELECTED TOPICS (1-4)
Interdisciplinary studies with course content dependent on student demand and instructor's interest. May be repeated as topics vary.
ISS 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.
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.)

LANGUAGE

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 4200 or equivalent.

Arabic
ARA 1120 MODERN ARABIC I (4)
An intensive study of basic skills: pronunciation, listening comprehension, speaking and some composition.
ARA 1121 MODERN ARABIC II (4)
PR: ARA 1120 or its equivalent. A continuation of ARA 1120. More sophisticated oral/aural skills are attained. Basic reading skills are acquired.

Chinese
CHI 1120 MODERN CHINESE I (4)
Mandarin. An intensive study of basic skills: pronunciation, listening, comprehension, speaking, and some composition.
CHI 1121 MODERN CHINESE II (4)
Mandarin. PR: CHI 1120 or equivalent. A continuation of CHI 1120. More sophisticated oral/aural skills are attained. Basic reading skills are acquired.

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)
The first course in the study of elementary French. Emphasis on the development of basic skills in comprehension, speaking and reading.
FRE 1121 BEGINNING FRENCH II (4)
PR: FRE 1120 or equivalent. A continuation of FRE 1120.
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 1470. 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 3244 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 4470 ADVANCED OVERSEAS STUDY (1-6)
PR: FRE 3470 or CI. Intensive language study in France. Departmental approval required.

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 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 5310 CLASSICAL DRAMA (3)
PR: FRW 4101. Corneille, Moliere, and Racine.

FRW 5415 LITERATURE OF THE MIDDLE AGES (3)
PR: FRW 4100 or 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 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 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 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)
Development of basic skills in listening and reading comprehension, speaking and writing of German.

GER 1121 BEGINNING GERMAN II (4)
PR: GER 1120 or equivalent. Continued development of basic skills in listening and reading comprehension, speaking and writing German.

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 IndoEuropean 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 Heidelberger 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.

Hebrew

HBR 1120 MODERN HEBREW I (4)
An intensive study of basic skills: pronunciation, listening comprehension, speaking, and some composition.

HBR 1121 MODERN HEBREW II (4)
PR: HBR 1120 or equivalent. A continuation of HBR 1120. More sophisticated oral/aural skills are attained. Basic reading skills are acquired.

Italian

ITA 1120 BEGINNING ITALIAN I (4)
The first course in the study of elementary Italian. Emphasis is on the development of basic skills in comprehension, speaking, and reading.

ITA 1121 BEGINNING ITALIAN II (4)
The second course in the study of elementary Italian. Emphasis is on the development of basic skills in comprehension, speaking and reading.

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)
An intensive study of basic skills: pronunciation, listening comprehension, speaking, and some composition.

JPN 1121 MODERN JAPANESE II (4)
PR: JPN 1120 or equivalent. A continuation of JPN 1120. More sophisticated oral/aural skills are attained. Basic reading skills are acquired.

Polish

POL 1120 BEGINNING POLISH I (4)
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 1121 BEGINNING POLISH II (4)
PR: POL 1120 or equivalent by examination. 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.

Portuguese

POR 1120 BEGINNING PORTUGUESE I (4)
Development of basic skills in listening and reading comprehension, speaking and writing of Brazilian Portuguese.

POR 1121 BEGINNING PORTUGUESE II (4)
PR: POR 1120 or equivalent. Continued development of basic skills in listening and reading comprehension, speaking and writing of Brazilian Portuguese.

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)
The first course in the study of elementary Russian. Emphasis on the development of basic skills in comprehension, speaking and reading.

RUS 1121 BEGINNING RUSSIAN II (4)
PR: RUS 1120 or CI. The second course in the study of elementary Russian. Emphasis on the development of basic skills in comprehension, speaking and reading.

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 3240 CONVERSATION I (4)
PR: Second year Russian or equivalent. Development of basic conversational skills.

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 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 TRANSLATION -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 TRANSLATION -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)
Development of basic skills in listening and reading comprehension, speaking and writing of Spanish.

SPN 1121 (BEGINNING SPANISH II (4)
PR: SPN 1120 or equivalent. Continued development of basic skills in listening and reading comprehension, speaking and writing of Spanish.

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 2241 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 3440 SPANISH FOR BUSINESS (3)
PR: SPN 2201 or equivalent. An introduction to the Spanish language as used in undertaking ordinary business transactions.

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 MODERN SPANISH WORLD (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 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.

SPN 6795 (PHONOLOGY AND PHONETICS (3)
PR: SPN 3300. A study of the Spanish sound system.

SPN 6845 HISTORY OF THE SPANISH LANGUAGE (3)
Traces the development of Spanish from its Latin origins to the present.

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 4130 SURVEY OF SPANISH-AMERICAN LITERATURE I (3)
PR: SPW 3030 or equivalent. An introduction to the study of Colonial Spanish-American literature from the Discovery to Modernism.

SPW 4131 SURVEY OF SPANISH-AMERICAN LITERATURE II (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 5245 THE PICARESQUE NOVEL (3)
Realistic prose-fiction of the Renaissance and Golden Age.

SPW 5315 GOLDEN AGE 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 5485 POST CIVIL WAR LITERATURE (3)
PR: SPW 4101. The drama and novel since 1936.

SPW 5535 ROMANTICISM (3)
PR: SPW 4101. Poetry and drama of the first half of the 19th century.

SPW 5555 REALISM (3)
PR: SPW 4101. Prose fiction of the 19th century.

SPW 5605 CERVANTES (3)
Cervantes' masterpiece *Don Quijote de la Mancha.*

SPW 5726 VANGUARD LITERATURE (3)
PR: SPW 4101. A study of vanguard literature in Spain between 1918 and 1936.

SPW 5755 MEXICAN LITERATURE (3)
PR: SPW 4130. Major writers of all genres. Emphasis on modern writers.

SPW 5765 LITERATURE OF ARGENTINA AND URUGUAY (3)
PR: SPW 4131. Emphasis on the gaucho theme and contemporary prose fiction.

SPW 5775 CARIBBEAN LITERATURE (3)
PR: SPW 4130. Emphasis on contemporary Cuban and Puerto Rican literature.

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 Yoruba 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.

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.

MARINE SCIENCE

Graduate Courses

OCB 5050 BIOLOGICAL OCEANOGRAPHY (3)
PR: Graduate standing, CI. The study of life in the sea with reference to distribution, reproduction, adaptation, competition, and populations. Lec.-lab.

OCC 5050 CHEMICAL OCEANOGRAPHY (3)
PR; CHM 2046 and CI. The ocean as a chemical system, including composition, physical-chemical aspects, role of nutrients, trace metals, interaction between bottom and overlying water, modern methods of analysis in routine use in oceanography. Lec.-lab.

OCE 3001 INTRODUCTION TO OCEANOGRAPHY (3)
Overview of biological, chemical, geological, and physical oceanography. (Also listed under Geology.)

OCG 5050 GEOLOGICAL OCEANOGRAPHY (3)
PR: Graduate standing or CI. An introduction to the physical, historical sedimentary, and structural geology of the ocean basins and their borders. Lec.-lab.

OCP 5051 PHYSICAL OCEANOGRAPHY (3)
PR: Graduate standing, CI, PHY 3042. The world ocean including its morphology, physical properties, currents, waves, tides, heat budget, and related topics. Lec.-lab.

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 4206 ADVANCED FILM LIGHTING (3)
PR: FIL 4205. Advanced lighting of studio and location sets stressing professional procedures and standards from preproduction to post production.

FIL 4207 SENSITOMETRY AND PHOTOMETRICS (3)
PR: FIL 3004. The materials and processes of cinema photo; response of materials to development and exposure.

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 newswriting 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 2013, 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 live magazine or industrial publication situation where the student works for academic credit under the tutelage of a professional practitioner. (S/U only.)

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. Historic and Constitutional backgrounds of freedom and control of expression, statutory enactments, major Supreme Court cases, court decisions and administrative rulings which have shaped legal control of communications.

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 4110 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 realtions practitioner in business, government and social institutions, and the nature of specialized areas of the practice. Indentification 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 BROADCASTING (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 3230 BROADCASTING ANNOUNCING (3)
PR: ORI 3000, RTV 3000, SPC 2023 or SPC 2050. Development of skills required for effective announcing and other appearances before microphone and camera.

RTV 3300 BROADCAST NEWS (4)
PR: RTV 3000. 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 4402 MEDIA CRITICISM: BROADCASTING (3)
PR: RTV 3000. A critical study of contemporary broadcast content.

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 BROADCAST LAW (3)
PR: RTV 3000, RTV 3300, MMC 4200 and POS 2112, or 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 TO MATHEMATICS-6A (3)
PR: MAC 3311 or MAC 3281. Corequisite: 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 or CI. 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. Metric spaces, limits, continuity, differentiation, convergence, Riemann-Stieltjes integration, Lebesgue measure and integration on the real line.

MAA 5307 REAL ANALYSIS II (3)
PR: MAA 5306. Continuation of MAA 5306.

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.)

MAA 5406 TOPICS IN COMPLEX ANALYSIS (3)
PR: MAA 5405. Univalent and Multivalent functions, entire functions, approximation theory in the plane.

MAC 2102 COLLEGE ALGEBRA -6A (3)
PR: Passing score on placement test. Students should have the equivalent of two years high school math including one year of algebra or HCC mathematics course MAT 1033 taught on USF campus. Real numbers and their properties, algebraic expressions, equations and inequalities, functions, polynomials, exponential and logarithmic functions. Not for math majors. (No credit for students with credit in MAC 2132.)

MAC 2114 COLLEGE TRIGONOMETRY -6A (2)
PR: Pass 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)
PR: Two years of secondary school mathematics including one year of algebra or HCC mathematics course MAT 1033, taught on USF campus or CC, pass placement test in algebra. Real numbers and their properties, algebraic expression, equations and inequalities, functions, polynominals, exponential and logarithmic functions. Angles, trigometric functions, properties and graphs of trigomentric 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: Pass placement test in algebra. Students should have two years of secondary school mathematics including one year of algebra or HCC mathematics course MAT 1033 taught on USF campus or CC. Algebra, functions, differentiation, applications. MAC 3233-MAC 3234 is 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. Antiderivatives, the definite integral, techniques of integration, logarithmic and exponential functions, applications. (No credit for Mathematics majors or students with credit in MAC 3282 or MAC 3312.)

MAC 3281 ENGINEERING CALCULUS I -6A (3)
PR: MAC 2132 with a "C" or better or CC. 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. Definite integral, trigonometric functions, log, exponential, applications. (No credit for students with credit in MAC 3234

or MAC 3312.)

MAC 3283 ENGINEERING CALCULUS III -6A (3)
PR: MAC 3282. 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: MAC 2132 with a grade of "C" or better or CC. 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, 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 or CI. 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: Programming experience or CI. The powerful algebraic language LISP is introduced. The course covers (1) programming in LISP, (2) functional languages, (3) foundations of the Lambda Calculus, and (4) algebraic applications in artificial intelligence (theorem proving and game playing).

MAD 5305 INTRODUCTION TO GRAPH THEORY (3)
PR: CC. 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 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, SturmLiouville theory.

MAP 5317 ORDINARY DIFFERENTIAL EQUATIONS II (3)
PR: MAP 5316 or MAA 5307 or CI. Topics selected from fixed point theory, comparison theory, oscillation theory, Poincare-Bendixson Theory, Lyapunov functions, eigenifunction expansions.

MAP 5345 APPLIED PARTIAL DIFFERENTIAL EQUATIONS (3)
PR: MAP 5407 and 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. 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, or CI. 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 4301 ELEMENTARY ABSTRACT ALGEBRA -6A (3)
PR: MAC 3311, MAC 3281, or CI. 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: CC. Congruences, quadratic residues, selected topics.

MAS 5311 ALGEBRA I (3)
PR: MAC 3313, MAS 5107, MAS 4301. An introduction to group theory.

MAS 5312 ALGEBRA II (3)
PR: MAS 5311. An introduction to 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 Natural 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 carreer 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: Senior or Junior Standing and CC. Each topic is a course of study. 01-History of Mathematics, 03-Logic and Foundations, 05-Number Theory, 07-Topics in Algebra, 09-Mathematics for Physics, 11-Topics in Probability and Statistics, 13-Topics in Analysis, 15-Topics in Topology.

MGF 2130 MODERN MATHEMATICS WITH MICROCOMPUTERS -6A (4)
PR: Same as for MGF 2202. 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. Students should have the equivalent of two years high school math including one year of algebra or HCC mathematics course MAT 1033 taught on USF campus. Linear functions, matrices and systems of linear equations, linear programming, logic sets, permutations and combinations, introduction to statistics, introduction to probability.

MHF 4102 LOGIC AND SET THEORY -6A (3)
PR: MAC 3311 or MAC 3281, or consent of instructor. 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 5306 ELEMENTARY MATHEMATICAL LOGIC (3)
PR: CC. Truth tables, tautologies, quantifiers, rules of inference, informal proofs in mathematics.

MHF 5405 HISTORY OF MATHEMATICS (3)
PR: MAC 3313. Traces the development of mathematical ideas through history. 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 5316 TOPOLOGY I (3)
PR: MAC 3313 and MHF 4102. Metric and topological spaces, continuity, homeomorphisms, connectedness, fundamental group, compact spaces, separation axioms, product spaces.

MTG 5317 TOPOLOGY II (3)
PR: MTG 5316. Continuation of MTG 5316.

STA 3023 INTRODUCTORY STATISTICS I -6A (4)
PR: Passing score on placement test. Hypothesis testing, estimation; normal, Chi-square, t, F, binominal, multinominal distributions; ANOVA, CR, RCB designs; single df, regression, correlation, contingency tables. Students who successfully complete this course may not also receive credit for GEB 2111 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 3404 ELEMENTARY PROBABILITY -6A (3)
Counting techniques, probability, expectation, probability distributions, the law of large numbers. (No credit for Mathematics majors. Credit for Department of Biology majors.)

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, x (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 5206 STOCHASTIC PROCESSES (4)
PR: STA 5446. Stochastic processes in discrete time, including Markov chains on a countable state space, martingales, optional-sampling and ergodic theory of stationary processes; simple continuous-time Markov processes with a countable state space, such as Poisson Processes and Branching process. Renewal processes.

STA 5326 MATHEMATICAL STATISTICS (4)
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. MAA 5306. 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 5447 PROBABILITY THEORY II (3)
PR: STA 5446. Proof of strong law of large numbers, characteristic functions, Lindeberg-Feller theorem, uniform integrability, martingale inequalities and convergence theorems, Birkhoff's ergodic theorem, subadditive ergodic theorem and applications.

STA 5526 NON-PARAMETRIC STATISTICS (4)
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 4215. 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.

PHILOSOPHY

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 3440 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 3000 INTRODUCTION TO PHILOSOPHY-6A (3)
An introduction to selected philosophical problems and traditions.

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 3634 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 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 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 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.

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

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. Semesters: Fall, Spring.

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. Lec. Semesters: Fall, Spring, Summer.

PHZ 3103 PROBLEMS IN GENERAL PHYSICS II (1)
CR: PHY 3049. Second semester of sequence PHZ 3102, PHZ 3103. Semesters: Fall, Spring, Summer.

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. Fall Semester.

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. Spring Semester.

PHZ 5304 NUCLEAR PHYSICS (3)
PR: PHY 4604 or CI. Nuclear forces, nuclear models, nuclear structure, decay, nuclear reaction, and high energy physics. Spring Semester.

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. Spring Semester.

PHZ 5505 PLASMA PHYSICS I (3)
PR: PHY 4324C or CI. Introduction to Boltzmann, magnetohydro dynamic and orbit approaches to plasmas. Longitudinal and electromagnetic waves in plasmas. Collisions and radiation. Instabilities. Fall Semester.

PHY 2020 CONCEPTUAL PHYSICS (4)
A qualitative, non-mathematical investigation of physics, emphasizing its influence on life today. (No credit for physics or mathematics majors.) Semesters: Fall, Spring, Summer.

PHY 2038 ENERGY AND HUMANITY (3)
Social, economic, and political aspects of energy, including energy conservation, energy alternatives, personal use of solar energy, and changing life styles. 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. Semesters: Fall, Spring, Summer.

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. Semesters: Fall, Spring, Summer.

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. Semesters: Fall, Spring, Summer.

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. Semesters: Fall, Spring, Summer.

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. Semesters: Fall, Spring, Summer.

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. Fall Semester.

PHY 3323C ELECTRICITY AND MAGNETISM I (4)
PR: PHY 3049, MAC 3283 or MAC 3313. Electromagnetic circuits; resistance, capacitance, inductance, direct and alternating current circuits, thermoelectricity, and instrumentation. 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. Fall Semester.

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. Fall Semester.

PHY 4222 MECHANICS II (3)
PR: PHY 3121; 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. Spring Semester.

PHY 4324C ELECTRICITY AND MAGNETISM II (4)
PR: PHY 3221 or CI. CR: MAP 4302. Electrostatic fields, magnetic fields of steady currents, dielectrics and magnetic materials, Maxwell's equations. Second semester of sequence PHY 3323C, PHY 4324C. Fall Semester. Laboratory.

PHY 4471 FUNDAMENTAL ACOUSTICS (3)
PR: PHY 3223 or CI. Vibrations of elastic media, sound generation and propagation. Acoustical, electrical, and mechanical energy conversion. Underwater acoustics. Fall Semester.

PHY 4523 STATISTICAL PHYSICS (3)
CR: PHY 3101. Statistical approach to thermodynamics and kinetic theory and introduction to statistical mechanics. Fall Semester.

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. Fall Semester.

PHY 4744C ELECTRONICS FOR RESEARCH (3)
PR: General Physics or CI. Direct and alternating current circuits, transients, rectification, amplification; feedback, pulse circuits, and integrated circuits, laboratory. (No credit for physics or mathematics majors.) Semesters: Fall, Spring.

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. Spring Semester.

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.) Semesters: Fall, Spring, Summer.

PHY 4930 PHYSICS SEMINAR (1)
PR: Senior or advanced junior standing or CC. All undergraduate physics majors must enroll in this course at least twice and are expected to attend all Physics Colloquia. (S/U only.) Semesters: Fall, Spring, Summer.

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. Spring Semester.

PHY 5720C ELECTRONICS (4)
PR: PHY 3822L and PHY 4324. Vacuum and gas-discharge tubes, semiconductors, transistors, electronic circuit analysis, and laboratory. Spring Semester.

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.

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 3930 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 5734 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 IN 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 Women's Studies.)

PUP 5607 PUBLIC POLICY AND HEALTH CARE (3)
The study of health care policy as it relates to the policy process in the American setting.

URP 4050 CITY PLANNING AND COMMUNITY DEVELOPMENT (3)
An introduction to the development, role, and components of city planning, and the political and actual policies of government in attempting to regulate or control urbanization.

PSYCHOLOGY

CBH 4004 COMPARATIVE PSYCHOLOGY (3)
PR: PSY 3213 with a grade of C or better or CI. The study of 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 or CI. Descriptions, theoretical explanations, research evidence, and treatment of maladaptive behavior.

CLP 4414 BEHAVIOR MODIFICATION (3)
PR: PSY 3213 with a grade of C or better or CI. Introduction to behavior analysis, and application of learning principles, behavioral measurement, research designs, and interventions in treatment settings.

CLP 4433 PSYCHOLOGICAL TESTS AND MEASUREMENT (3)
PR: PSY 3213 with a grade of C or better or CI. A consideration of the instruments for intellectual and personality assessment including their applications, development, and potential abuses. Students may not receive credit for both CLP 4433, and EDF 4430.

DEP 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 or CI. Survey of methods, empirical findings, and theoretical interpretations in the study of human and animal development.

DEP 4135 PSYCHOLOGY OF LANGUAGE DEVELOPMENT (3)
PR: PSY 3213 with a grade of C or better 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 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 or CI. How man perceives his environment. Topics include sensory basis of perception, physical correlates of perceptual phenomena, and the effects of individual and social factors on perception.

EXP 4304 MOTIVATION (3)
PR: PSY 3213 with a grade of C or better 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 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 or CI. Survey of methods, empirical findings, and theoretical interpretations of human learning, information processing, and verbal learning.

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 or CI. Applications of psy-

chological 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 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 or CI. Gross neural and physiological components of behavior. Structure and function of the central nervous system as related to emotion, motivation, learning, 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 3044 EXPERIMENTAL PSYCHOLOGY (3)
PR: PSY 2012 or CI. Designed as an in-depth examination of the basic principles and concepts of psychology. Extensive coverage will be given to the areas of learning, perception, and neuropsychology.

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 3213 RESEARCH METHODS IN PSYCHOLOGY (4)
PR: PSY 3044. 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. 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 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 and CI. The student plans and conducts an individual research project or program of directed readings under the supervision of a faculty member. May be repeated with a maximum of 3 semester hours. (S/U Only.)

PSY 4931 SELECTED TOPICS: SEMINAR (3)
PR: Upper level standing 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.

PSY 4932 HONORS SEMINAR (2)
PR: Admission to honors program in psychology and CI. Graduate type seminar designed to provide the honors student with an opportunity to present, discuss, and defend his 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 (4)
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 8 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 or CI. Survey of methods, empirical findings, and theoretical interpretations in the study of an individual's behavior as it is affected by others.

SOP 4714C ENVIRONMENTAL PSYCHOLOGY (3)
PR: PSY 2012 or PSY 3044 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 4202 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.

ECG 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 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 (3)
Explores the relations between religion, ethics, and society in Eastern and Western cultures, and the critical problems raised by the emergence of modern, secularized civilization. Open to majors and non-majors.

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, Bonohoeffer, 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 (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 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: CI. 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: CI. 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. Open to majors and non-majors.

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. Open to majors and non-majors.

REL 4171 CONTEMPORARY CHRISTIAN ETHICS -6A (3)
PR: Jr. standing or CI. This course will survey several major approaches to contemporary Christian ethics and their application to a number of ethical issues peculiar to personal and social life in contemporary society. Open to majors and non-majors.

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 CI. An investigation of the prophetic movement and the historical and cultic writings in Israel from the point of view of theological developments, history presupposed, and the religious institutions depicted. Special attention is given to a theme such as Job and the problem of evil.

REL 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: CI. An examination of the various historical studies made in the quest of identifying Jesus as an historical figure. The concern is to make a reasonable assessment of who Jesus was and what he was saying to the Jews in Palestine at the beginning of the common era.

REL 4252 NEW TESTAMENT II: THE LETTERS OF PAUL AND OTHER NEW TESTAMENT WRITINGS (4)
PR: REL 4244 or REL 3240 or CI. An investigation of the phenomenon of earliest Christianity in its Pauline and non-Pauline forms, particularly as reflected in Paul's letters and in other writings of the New Testament. Special attention is given to the program of Apocalyptic, as in the book of Revelation.

REL 4333 HINDUISM (4)
The philosophy of the saints; the complex rituals of the Brahmins; the art of its temples; the psychology and physiology of yoga; the social rigidity of the caste system; the esoteric science of meditation; the ascetic activism of Mahatma Gandhi--all of these are Hinduism, and more. Close readings of classical texts, philosophic systems and medieval poems.

REL 4343 BUDDHISM IN INDIA, SRI LANKA, AND SOUTH EAST ASIA (4)
The life and teachings of the Buddha; the order of monks and nuns; the Buddhist Emperor Ashoka; schisms; the rise of the Great Vehicle and the philosophy of emptiness; Buddhist missions; Buddhist art and culture; Buddhism and national liberation; contemporary social and political issues.

REL 4344 BUDDHISM IN CHINA, JAPAN, AND TIBET (4)
Mahayana Buddhism followed the silk routes to China and Japan, and later it crossed the Himalayas into Tibet. An overview of the variety of schools and practices of Buddhism and its adaptation by these ancient cultures.

REL 4508 FROM MYTH TO CHRISTIANITY (4)
Study of the religions/mythologies of the ancient Middle East and Eastern Mediterranean and how their influences shaped the theology and practices of Christianity up to the end of the fourth century; influences many of which continue to be evident in the traditional Roman and Eastern Orthodox churches.

REL 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. Open to majors and non-majors.

REL 4910 UNDERGRADUATE RESEARCH (1-4)
PR: Junior standing and CI. 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 CI. 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.

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. (Alternate years.)

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 Department 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 Department 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 Department 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 Department 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 Department 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 Department 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 Department 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 Department 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 5930 SELECTED TOPICS IN SOCIAL WORK (1-4)
Restricted to Social Work majors, both graduate and undergraduate; others by Department 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 Social and Behavioral 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 4145 SOCIOLOGY OF MORALS (3)
PR: SYG 2000 or CI. An examination of the place of morals in social life, with special attention to politics, work, social structure, and the problem of the reproduction of social relations.

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 5949 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.

SYO 5365 INDUSTRIAL SOCIOLOGY (3)
PR: SYG 2000 or CI; upper level standing. Interaction, communication and authority in economic organization; the factory as a social system.

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 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.

SYP 5035 SOCIOLOGY OF SMALL GROUPS (3)
PR: SYG 2000 or CI; upper level standing. Theory of small group structure, mechanics of interaction, observation of small groups.

SYP 5055 SOCIAL INTERACTION (3)
PR: SYP 3000 or CI; upper level standing. Interpersonal influence, complex behavior, role, conflict, and social situational factors.

SYP 5405 SOCIAL CHANGE (3)
PR: SYG 2000 or CI; upper level standing. Major theories of social and cultural change, and mechanisms of change in various societies.

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 African and Afro-American 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 Anthropolgy.)

LIT 3383 IMAGE OF WOMEN IN LITERATURE (3)
An historical literary analysis of stereotyped and liberated female images from Sappho through the emergence of the women's movement. (May also be taken for credit in English.)

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 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 4309 THE FEMALE EXPERIENCE IN AMERICA (3)
The female experience in America, in historical context, viewed through the writings of women of various classes, races, ethnic groups. Current research on American women by feminist historians. (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 4380 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 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 Ethics, Women Artists, etc.

WST 4935 SEMINAR IN WOMEN'S STUDIES (3)
PR: WST 3010 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 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).

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.

ISS 4909 BIS SOCIAL SCIENCES, INDEPENDENT STUDY (15)

ISS 4939 BIS SOCIAL SCIENCES, SEMINAR (15)
PR: BIS ISS 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)

HUM 4909 BIS HUMANITIES, INDEPENDENT STUDY (15)

HUM 4939 BIS HUMANITIES, SEMINAR (15)
PR: BIS HUM 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.

COLLEGE OF BUSINESS ADMINISTRATION

ACCOUNTING/LAW

Director, School of Accountancy: G. L. Holstrum; *Professors:* D. M. Dennis, C. W. Dungan, G. L. Holstrum, R. M. Keith, G. H. Lander, C. E. Reese, J. L. Smith, W. L. Stephens, R. J. West; *Professor Emeritus:* L. C. Jurgenson; K. W. Merriam; *Associate Professors:* J. F. Bussman, T. J. Engle, J. A. Fellows, M. Gift, L. C. Harris, K. L. Hooks, S. C. Kahn, G. Laursen, J. R. Martin, J. E. Moon, W. H. Parrott, J. D. Siebel, R. F. Welker, G. F. Whittaker; *Assistant Professors:* L. M. Alberto, J. Lasseter; *Instructors:* S. M. Callan, S. J. Cox, J. L. Reck; *Lecturers:* J. T. Fitzgibbon, C. L. Jozsi.

ECONOMICS

Acting Chairperson: R. M. Wilson; *Professors:* D. M. Bellante, G. Brunhild, T. D. Curtis, J. S. DeSalvo, H. S. Dye, W. J. Herman, J. W. Rowe, Jr., E. W. Shows; *Associate Professors:* J. P. Cooke, D. O. Cushman, 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:* C. A. Kogut, S. S. Lee; *Distinguished Lecturers:* K. W. Davey, Vernon H. Grigg; *Lecturer:* Sunne Brandmeyer; *Visiting Faculty:* T. J. Hailstones, J. R. Martin.

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. Kapplin, 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:* H. W. Lee, W. G. Modrow, S. Quintero; *Other Faculty:* J. Rader.

INFORMATION SYSTEMS AND DECISION SCIENCES

Chairperson: P. H. Cheney; *Professors:* S. J. Birkin, 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, T. C. Harrington, E. M. Hufnagel, T. L. Sincich, A. J. Waltz, R. P. Will; *Instructors:* R. R. McGrath, Jr., S. Moore; *Lecturer:* K. P. Temte, H. W. Stirling.

MANAGEMENT

Chairperson: A. C. Bartlett; *Professors:* A. C. Bartlett, C. F. Cohen, R. E. Dutton, J. M. Jermier, M. Karlins, R. Miljus, W. R. Nord, H. M. Schroder, K. R. Van Voorhis, T. L. Wheelen; *Associate Professors:* G. A. Balfour, J. T. Knippen, J. Koehler, N. McIntosh, C. E. Michael, Jr., R. L. Nixon, W. K. Schilit, R. M. Walsh; *Assistant Professor:* J. Gaines; *Lecturer:* E. Hargis.

MARKETING

Chairperson: P.J. Solomon; *Professors:* R. L. Anderson, D. M. Lambert, T. E. Ness, P. J. Solomon, J. R. Stock; *Associate Professors:* S. A. Baumgarten, 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:* W. E. Cook, R. L. Leeds, C. E. Vincent; *Other Faculty:* L. J. Deadman, R. H. Funsch, H. A. Lipson.

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.

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 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 nonmajors.

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 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 91-30
PR: CI. Topics to be selectd by department chairperson. May be repreated if topics vary. Not available for credit to upper-level students who have been admitted to the College of Business Administration

ECO 3101 INTERMEDIATE PRICE THEORY (3)
PR: ECO 2023. Analysis of supply and demand as related to product and resource pricing under the 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 macro economic 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.

ECO 5407 ECONOMIC PROGRAMMING AND CONTROL (3)
PR: QMB 3200, MAC 3233 or CI. Chairperson approval required for undergraduates. Analysis of economic structures by quantitative models and policy selection by optimization procedures. Preference functions and certainty equivalence. Deterministic and stochastic linear economic models. Dynamic and chance-constrained programming.

ECO 5424 ECONOMETRICS I (3)
PR: ECO 3203 or GEB 6717 and QMB 3200 or GEB 6756, or CI. Chairperson approval required for undergraduates. Theory and use of multiple regression to estimate relationships in causal models, to analyze economic behavior and to forecast the outcome of economic disturbances. Use of standard software packages. Estimation and interpretation of regression equations.

ECO 5425 ECONOMETRICS II (3)
PR: ECO 5424. Chairperson approval required for undergraduates. Advanced econometric techniques; model building, estimation and forecasting; design and execution of individual research projects.

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.

ECP 5405 INDUSTRIAL ORGANIZATION (3)
PR: ECO 3101 with a grade of "C" or better or GEB 6716. Chairperson approval required for undergraduates. Application of microeconomic theory to a variety of issues concerning the structure,

behavior, performance and regulation of industries.

ECP 5406 SEMINAR IN INDUSTRIAL ORGANIZATION (3)
PR: ECP 5405. Chairperson approval required for undergraduates. Contemporary industrial organization problems will be discussed in a seminar format.

ECP 5614 URBAN ECONOMICS (3)
PR: ECO 3101 with a grade of "C" or better or GEB 6716. Chairperson approval required for undergraduates. The economics of urban areas including analysis of their growth and development as well as intra-urban location patterns. Advanced economic analysis of urban problems.

ECP 5624 REGIONAL ECONOMICS (3)
PR: ECO 3101 with a grade of "C" or better or GEB 6716. Chairperson approval required for undergraduates. Economic analysis of the geographical allocation of scarce resources within and among regions. Topics discussed are: location of households and firms, interregional migration of labor and capital, regional growth and development, methods of regional analysis, and regional policy.

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. The methodology of Max Weber will be stressed.

FINANCE

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 Administration. 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 Administration. 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 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: GEB 3121, 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 also include an analysis of cost determination of the various types of coverage.

RMI 4113 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.

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 commerical and residential fire insurance, inland marine and transportation coverages, and multiperil contracts. Not limited to Finance majors.

GENERAL BUSINESS ADMINISTRATION

BUL 3112 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 3122 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 3659 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 4661 LAW AND THE ACCOUNTANT (3)
PR: BUL 3112 or CI. A comprehensive study of commercial law as it affects the practice of accounting.

GEB 3211 BUSINESS COMMUNICATIONS -6A (3)
Analysis and application of the principles of organizational behavior in letters, memorandums, and reports. Course is structured around a model which manifests the effective communications process.

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 student'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 3111 SYSTEMS ANALYSIS (3)
Overview of the system development life cycle. Emphasis on current system documentation through the use of both classical and structured tools/techniques for describing process flows, data flows, data structures, and file designs. Discussion of the information gathering and reporting activities and of the transition from analysis to design.

ISM 3112 SYSTEMS DESIGN (3)
PR: ISM 3111; 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 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 3111, ISM 3112. Principles of database administration. Database organization and models. Disaster planning for database files.

ISM 4220 DISTRIBUTED INFORMATION SYSTEMS (3)
PR: ISM 3111, ISM 3112. Analysis, design, implementation and management of distributed information systems and networks.

ISM 4290 SENIOR SEMINAR IN INFORMATION SYSTEMS (3)
PR: ISM 3111, ISM 3112, ISM 4300. A seminar covering advanced topics in system analysis and design. Applications of these procedures to actual or hypothetical cases.

ISM 4300 MANAGING THE INFORMATION SYSTEM FUNCTION (3)
PR: ISM 3111, MAN 3025; 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. MIS Major or CI. A study of information systems control and its application in system design and system management.

ISM 4400 DECISION SUPPORT SYSTEMS APPLICATIONS-COMPUTER ASSISTED DECISION MAKING (3)
PR: FIN 3403, QMB 3200, and ISM 3111. 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.

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.

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.

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 PERSONNEL 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 Administration. 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 3103 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. This course 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 the 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. The 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

ADULT AND VOCATIONAL EDUCATION

Chairperson: W. E. Blank; *Professor:* F. F. Johnson; *Associate Professors:* W. E. Blank; C. H. Collier, R. Hill, W. B. James, G. P. Patterson, C. Welter; *Assistant Professor:* D. B. Briscoe; *Visiting Assistant Professors:* M. Gazvoda, R. Hicks; *Visiting Instructors:* P. Ebbs, E. Gallagher, S. Gentry, J. Grisham, J. Scaglione; *Other Faculty:* S. Casper, K. Childress, M. Paul, S. Stokes.

CHILDHOOD/LANGUAGE ARTS/READING EDUCATION

Chairperson: H. P. Pfost; *Professors:* S. Helton, J. Klesius, R. Linder, A. J. Lowe, L. McClellan, M. Mann, D. Neville, E. F. Searls; *Associate Professors:* G. B. Barkholz, B. K. Clarke, F. W. Freshour, F. S. Goforth, P. Hanley, S. Homan, W. Kasten, J. Linder, H. P. Pfost, J. T. Polito, C. Spillman, J. Swarzman; *Assistant Professors:* N. Anderson, B. Frye, P. Griffith, M. Guddemi, J. Fountain; *Visiting Instructor:* M. E. Hewitt; *Instructor*, C. Schwartz; *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:* D. W. Evans, J. J. Hunt, L. T. Karns, T. W. Keene, R. F. Pride, S.L. Schurr; *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; *Assistant Professor:* R. F. Dedrick.

PHYSICAL EDUCATION

Chairperson: H. A. Hoffman; *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, 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: J. W. Barnard; *Professors:* E. C. Anderson, J. Barnard, D. E. Bostow, W. W. Burley, J. C. Dickinson, V. J. Drapela, 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:* C. Weingartner; *Associate Professors:* G.M. Batsch, W. T. Bridges, D. L. Carroll, 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.

SCHOOL OF LIBRARY AND INFORMATION SCIENCE

Interim Director: J. A. McCrossan; *Professors:* J. A. McCrossan, F. C. Pfister, A. Prentice; *Professor Emeritus:* J. K. Gates, A.G. Smith; *Associate Professors:* B. El-Hadidy, J. M. Knego, H. M. Smith, T. C. Wilson; *Courtesy Associate Professor:* Y. L. Ralston; *Assistant Professors: V.* Gregory, *S.* Jackson.

SECONDARY EDUCATION

Chairperson: J. Howard Johnston.; *Professors:* J. T. Bullock, C. W. Engle, H. G. Karl, B. K. Lichtenberg, D. R. Lichtenberg, J. B. Kase-Polisini, E. R. Phillips, D. J. Puglisi, H. E. Steiner, A. Troutman; *Associate Professors:* F. D. Breit, P. V. Czyzewski, M. S. Holland, B. J. Kazanis, J. W. Levy, F. L. Prince, B. S. Spector; *Assistant Professors:* R. A. Austin, M. Chappell, C. Feyten, J. Kaywell, M. Nelson, D. R. Thompson, J. A. White; *Director Instructional Computing Center:* S. S. VanDerenter; *Instructor:* S. W. Phillippy.

SPECIAL EDUCATION

Chairperson: J. Paul; *Professors:* L. Bowers, E. Guetzloe, S. Klesius, C. D. Lavely, A. J. Mauser, S. P. Singh; *Research Professor:* W. Rhodes; *Associate Professors:* B. Epanchin, D. Evans, J. A. Merica, H. A. Sproles; *Assistant Professors:* A. Cranston-Gingras, D. Thomas; *Other Faculty:* M. Gazvoda, D. Harris, H. Roselli;

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.

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 of processes and media involved in the expression of individual ideas through crafts. Emphasis placed on crafts in a contemporary society with skills in metals, weaving, fibers, and ceramics and their application in a public school curriculum.

ARE 4642 URBAN ENVIRONMENT ARTS WORKSHOP (3)

PR: Admission to College of Education and ARE 3044. Identification, exploration, and experimentation with unique urban 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. Offered only as a scheduled class.

ARE 4936 SENIOR SEMINAR IN ART EDUCATION (2)
PR: Senior standing. Synthesis of teacher candidate's courses in complete college program. Required concurrently with internship.

ARE 4940 INTERNSHIP: ART EDUCATION (1-12)
One full semester of internship in a public or private school. Intern takes Senior Seminar in Education concurrently. 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.)

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 in elementary, middle school and secondary schools. 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.

BUSINESS AND OFFICE EDUCATION

BTE 4360 METHODS OF TEACHING: BUSINESS EDUCATION (4)
PR: Successful completion of BE competencies, or CI. Methods, techniques and materials for instruction.

BTE 4364 SPECIAL TEACHING METHODS: BUSINESS EDUCATION (4)
PR: Successful completion of BE competencies, or CI. Methods, techniques, and materials for skill development.

BTE 4905 INDEPENDENT STUDY: BUSINESS 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.)

BTE 4909 DIRECTED STUDY: BUSINESS EDUCATION (1-3)
PR: Senior standing. To extend competency in teaching field. Offered only as a scheduled class.

BTE 4936 SENIOR SEMINAR IN BUSINESS AND OFFICE EDUCATION (2)
PR: Senior standing. Synthesis of teacher candidate's courses in complete college program. Required concurrently with internship.

BTE 4940 INTERNSHIP: BUSINESS EDUCATION (1-12)
One full semester of internship in a public or private school. Intern takes Senior Seminar in Business Education concurrently. 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 5171 CURRICULUM CONSTRUCTION: BUSINESS EDUCATION (3)
Curriculum scope, the process of planning and organizing instructional programs with emphasis in task analysis and process evaluation.

BTE 5245 PROGRAM MANAGEMENT: BUSINESS EDUCATION (3)
Organization, coordination, and budgeting of adult, cooperative, and special programs.

OST 3324 BUSINESS AND OFFICE MACHINES (3)
Instruction and practice on selected business and office machines to solve business mathematics problems.

OST 3404 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 3712 OFFICE INFORMATION PROCESSING II (1-3)
PR: OST 3711. Programming word and information processing equipment; special applications of word and information processing functions to solve field-based problems. Available to majors; or others only with CI.

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.), programming languages (Logo and BASIC), and disk operating systems.

EME 5403 MICROCOMPUTERS IN EDUCATION: ELEMENTARY AND SECONDARY METHODS (2-4)
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 3061 REHABILITATIVE COUNSELING: CONCEPTS AND APPLICATIONS (3)
This course surveys the theories, concepts, and attitudes involved in helping disabled or unabled persons become increasingly able. It provides initial experiences with these counseling perspectives and methods and their personal application.

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 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.)

EGC 5101 HUMAN RELATIONS SKILLS IN GUIDANCE (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.

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 non-majors.

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. Synthesis of teacher candidate's courses in complete college program. Required concurrently with internship.

DEC 4940 INTERNSHIP: DISTRIBUTIVE AND MARKETING EDUCATION (1-12)
One full semester of internship in a public or private school. Intern takes Senior Seminar in Distributive and Marketing Education concurrently. 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 (1-3)
PR: Senior standing. To extend competency in teaching field. Offered only as a scheduled class.

EDE 4936 SENIOR SEMINAR IN ELEMENTARY EDUCATION (2)
PR: Senior standing. Synthesis of teacher candidate's courses in complete college program. Required concurrently with internship.

EDE 4940 INTERNSHIP: ELEMENTARY EDUCATION (10)
PR: EDE 4941 and EDE 4942. Teacher candidate is required to demonstrate professional competencies during one semester of fullday internship in a public or private elementary school. Concurrent enrollment in EDE 4936. (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. Offered only as a scheduled class.

EEC 4936 SENIOR SEMINAR IN ELEMENTARY EARLY CHILDHOOD EDUCATION (2)
PR: Senior standing. Synthesis of teacher candidate's courses in complete college program. Required concurrently with internship.

EEC 4940 INTERNSHIP: ELEMENTARY/ ELEMENTARY-EARLY CHILDHOOD (10)
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 4335 METHODS OF TEACHING ENGLISH - 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 0r 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 HIGH SCHOOL-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 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 4334 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. 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.)

FOUNDATIONS EDUCATION

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 3810 COMPARATIVE EDUCATION (3)
PR: Upper level standing. A comparison of contemporary educational systems of selected countries with that of the United States.

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 strenghthening 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.

INDUSTRIAL AND TECHNICAL EDUCATION

EIA 4360 SPECIAL TEACHING METHODS: INDUSTRIAL ARTS (3)
PR: EIV 4360 or CI. Equips Industrial Arts 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 a man'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)
PR: EIV 4360 or CI. 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 particularly for adults. 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: RED 4360, or CR in 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 4815 FACILITY DESIGN AND MANAGEMENT (3)
Design and develop instructional facility floor plans consistent with modern and efficient methods of instruction as well as evaluate existing classrooms, laboratories, and shops. Selection and location of equipment. Review and prepare operational plans for the

management of equipment, furniture, tools, and supplies as they relate to effective student learning.

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. Synthesis of teacher candidate's courses in complete college program. Required concurrently with internship.

EVT 4940 INTERNSHIP:INDUSTRIAL-TECHNICAL EDUCATION (1-12)
One full semester of internship in a public or private school. Intern takes Senior Seminar in Education concurrently. 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 purpose of cooperative program planning, community invovement 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 junior high school mathematics topics only.

MAE 4330 TEACHING SENIOR HIGH SCHOOL MATHEMATICS (3)
PR: 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: Reading in Secondary Content Areas, Teaching Senior High School Mathematics, Methods of teaching students to read the language of mathematics.

MAE 4905 INDEPENDENT STUDY: MATHEMATICS (1-4)
PR: Senior Standing. To extend competency in teaching field. Offered only as a scheduled class.

MAE 4909 DIRECTED STUDY: MATHEMATICS EDUCATION (1-3)
PR: Senior Standing. To extend competency in teaching field. Offered only as a scheduled class.

MAE 4936 SENIOR SEMINAR IN MATHEMATICS EDUCATION (2)
PR: Senior Standing. Synthesis of teacher candidate's courses in complete college program. Required concurrently with internship.

MAE 4940 INTERNSHIP: MATHEMATICS EDUCATION (1-12)
One full semester of internship in a public or private school. Intern takes Senior Seminar in Education concurrently. 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 FIGURE 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 AEROBICS (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 ACTIVITIES (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 LIFESAVING (2)
PR: PEN 2172 or equivalent. Knowledge and skills necessary for saving one's life or others in the event of aquatic emergency. ARC certification offered.(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.)

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.)

PEQ 3115 WATER SAFETY INSTRUCTION (2)
PR: PEN 2113. Examination of the various swimming strokes leading to identification of appropriate methods and techniques for instructing others. ARC certification offered. (S/U only.)

PET 2330C HUMAN KINESIOLOGY I (2)
An introduction to the structure and function of the skeletal and neuromuscular systems in reference to their support of vigorous human movement. (S/U only.)

PET 2382 INTRODUCTION TO EXERCISE THEORY (2)
An introduction to the basic principles underlying exercise techniques for improving cardiovascular endurance, strength, flexibility, and weight control. Examination and critique of popular fitness programs, fads and fallacies.

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.

PEP 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.)

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. 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 philosphical perspective. Non-teaching tasks are identified as part of the professional role. Evaluate and continue personal-professional development plan developed in previous semesters. Taken concur-

rently 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 implemenation of various types of wellness programs with emphasis on assessment and evaluation management, staffing, participant adherence, program design, budgeting 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 K-6.

PET 4622 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 4947 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.

READING EDUCATION

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.

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.

SCHOOL OF LIBRARY AND INFORMATION SCIENCE

LIS 2001 USE OF THE LIBRARY (2)
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. (S/U only.)

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.

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. Synthesis of teacher candidate's courses in complete college program. Required concurrently with internship.

SCE 4940 INTERNSHIP: SCIENCE EDUCATION (1-12)
One full semester of internship in a public or private school. Intern takes Senior Seminar in Education concurrently. (S/U only.)

SCE 5937 SELECTED TOPICS IN SCIENCE EDUCATION (1-4)
May be repeated when topics are not duplicated.

SOCIAL SCIENCE EDUCATION

SSE 4333 TEACHING MIDDLE AND SECONDARY 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. Synthesis of teacher candidate's courses in complete college program. Required concurrently with internship.

SSE 4940 INTERNSHIP: SOCIAL SCIENCE EDUCATION (1-12)
One full semester of internship in a public or private school. Intern takes Senior Seminar in Education concurrently. 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.)

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 4321 EDUCATIONAL PROCEDURES FOR STUDENTS WITH BEHAVIOR DISORDERS (3)
PR: EEX 3010, EED 4011, or equivalent or CI. Methods, materials and instructional techniques; development and implementation of individualized education programs; classroom organization and curriculum for students with behavior disorders.

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. Offered only as a scheduled class.

EED 4941 UNDERGRADUATE SUPERVISED PRACTICUM IN BEHAVIOR DISORDERS (1-6)
PR: CI. Field experience in classroom management, clinical teaching and assessment in behavior disorders. (S/U only.) Repeatable up to 6 credit hours.

EEX 3010 INTRODUCTION TO SPECIAL EDUCATION (3)
Characteristics and needs of Specific Learning Disabilities, Emotional Disturbance and 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, EEX 3010, and an Exceptional Child Education major. Introduction to and familiarization with formal and informal techniques used to measure and evaluate all exceptional students. The interpretation of information so derived for utilization in educational programming and individualization of instruction.

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 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. Offered only as a scheduled class. Repeatable up to 3 credit hours.

EEX 4936 SENIOR SEMINAR IN EXCEPTIONAL STUDENT EDUCATION (2)
PR: Senior standing. Synthesis of teacher candidate's courses in complete college program. Required concurrently with internship.

EEX 4940 INTERNSHIP: EXCEPTIONAL STUDENT EDUCATION (1-10)
One full semester of internship in an accredited public or private school. Intern takes Senior Seminar in Education concurrently. 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.)

EEX 5705 SEMINAR IN PRESCHOOL HANDICAPPED (2)
PR: CI. Seminar intended to familiarize the education student with the wide range of needs and services of the preschool handicapped child and their families and how they coordinate with educational services. 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 specific learning disabilities. Emphasis is on theories, issues, trends, and philosophy of problems for such children.

ELD 4110 EDUCATIONAL PROCEDURES FOR SPECIFIC LEARNING DISABILITIES (3)
PR: ELD 4011, EEX 4221, or CI. Curriculum organization, materials selection/design based on diagnostic findings for students with specific learning disabilities.

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. Offered only as a scheduled class.

ELD 4941 UNDERGRADUATE SUPERVISED PRACTICUM IN SPECIFIC LEARNING DISABILITIES (1-6)
PR: EEX 3010, ELD 4011, ELD 4110 and major in Specific Learning Disabilities. Supervised practicum experiences in classes for children with specific learning disabilities. Repeatable up to a total of 6 hours. (S/U only.)

EMR 3011 INTRODUCTION TO MENTAL RETARDATION (3)
PR: EEX 3010. Introduction to the classification, diagnosis, characteristics, and treatment of the mentally retarded.

EMR 4230 EDUCATING THE SEVERELY/ PROFOUNDLY HANDICAPPED (3)
PR: EMR 3011 or CI. Emphasis on educational methods and materials for teaching the severely/profoundly handicapped. Practicum/ field experience linkage.

EMR 4310 EDUCATIONAL PROCEDURES FOR ELEMENTARY AGE EDUCABLE MENTALLY RETARDED CHILDREN (3)
PR: EMR 3011, RED 4310, EMR 4941 either previously or concurrently. Special class organization, curriculum development, procedures and materials for elementary aged educable mentally retarded children.

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: EMR 3011 and major in Mental Retardation. Supervised Practicum experiences in the educational, social and vocational programming for mentally retarded individuals. A one hour per week seminar is required concurrently. 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.

COLLEGE OF ENGINEERING

CHEMICAL ENGINEERING

Cahairperson: C.A. Smith; *Professors:* J.C. Busot, L. Garcia-Rubio, J.A. Loewellyn; *Associate Professors:* 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 Emeritus:* G.J. Cowell, B.E. Ross; *Professors:* M.W. Anderson, R.P. Carnahan, W.C.Carpenter J.E. Griffith, S.C. Kranc, L.W. Oline, N.C. Small, Jr.; *Associate Professors:* R.Janardhanam, A.R. Kaub, R. J. Murphy, J.L. Ratliff, A.A. Sagues, R. Sen; *Assistant Professors:* J.F. Devine, J.T. Franques, Jr., M.A. Ross, R.I. Stessel, A. Zayed; *Visiting Faculty:* R.S. Engel; *Courtesy Faculty:* G.A. Burdick, C.I. Noss, F.R. Jones, T.L. Miller, G.L. Brosch, S.E. Polzin.

COMPUTER SCIENCE AND ENGINEERING

Chairperson: M.R. Varanasi; *Professors:* H. Glass; *Associate Professors:* K.W. Bowyer, W,C, Naylor, R.A. Perez, D.J. Rundus; *Assistant Professors:* S.A. Al-Arian, D.B. Goldgof, L.O. Hall, P.M. Maurer, R. Mehrotra, L. Piegi, N. Ranganathan, A.O. Tokuta; Lecturers: P.F. Roth, C.D. Sarmiento; *Courtesy Faculty:* K.H. Kim.

ELECTRICAL ENGINEERING

Chairperson: E.K. Stefanakos; *Dean Emeritus:* G.A. Burdick; *Professors:* C.T.M. Chen, Y. Chiou, S.S. Chu, T.L. Chu, M.R. Donaldson, 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, W.L. Ko, D. Landis, H.A. Nienhaus, P.H. Wiley; *Assistant Professors:* J.M. Ammons, J.G. Cottle, A. Hoff, F.D. King, J.T. Leffew, R. Sankar; *Lecturers:* H.C. Gordon; *Visiting Faculty:* J. Stach.

INDUSTRIAL AND MANAGEMENT SYSTEMS ENGINEERING

Chairperson: P.E. Givens; *Professor Emeritus:* P.M. Downey; *Professors:* J.L. Brown, L.A. Weaver; *Associate Professors:* S.K. Callahan, W.A. Miller; *Visiting Faculty:* L.C. Leung

MECHANICAL ENGINEERING

Chairperson: R.H. Howell; *Professors:* R.A. Crane, L.A. Scott, S.J. Ying; *Associate Professors:* J.L.F. Porteiro, S. Wilkinson, *Assistant Professors:* G. H. Besterfield, A.K. Kaw.

ENGINEERING TECHNOLOGY

Chairperson: D.K. Gooding; *Lecturers:* L.Karst, J.Seeman.

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.)

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.

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 33131STATICS (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 3331. 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 and linear electronic 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: 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.

CHEMICAL ENGINEERING

ECH 3023 TNTRODUCTION TO PROCESS ENGINEERING (3)
PR: EGN 3343. Mass and energy balances on steady sate systems with and without chemical reactions. Combustion processes. Psychrometrics.

ECH 3264 TRANSPORT PROCESSES I (3)
PR: EMC 3203, ECH 3702. Design, sizing, and selection of fluid flow and heat transfer equipment to satisfy process demands. Lecture/laboratory.

ECH 3264L TRANSPORT PROCESS 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 (3)
PR: EGN 3373. Applications of analog and digital devices to instrumentation problems in chemical and mechanical engineering. Basic electrical measuremetns. Computer assisted measurements and process monitoring.

ECH 4123 PHASE AND CHEMICAL EQUILIBRIA (3)
PR: EMC 3103 or CHM 4410. Correlation of thermodynamic properties of real systems and solutions. Description of multicomponent, multiphase systems in equilibrium. Applications to separation processes and reactor design. Lecture/laboratory.

ECH 4123L PHASE AND CHEMICAL EQUILIBRIA LAB (0)
PR or CR: ECH 4123C or CI. Engineering laboratory experiments in chemical and phase equilibria. Formal oral and written presentations.

ECH 4244L CHEMICAL ENGINEERING LABORATORY II (2)
PR: EMC 3303, EMC 3301, ECH 3264L, ECH 4123L, ECH 4265L 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 3264C. Design, sizing and selection of mass transfer equipment. Absorption, distillation, extraction, humidification. Lecture/laboratory.

ECH 4265L TRANSPORT PROCESS LAB II (0)
PR or CR: ECH 4265C or CI. Engineering laboratory experiments in mass transfer and separation processes. Formal oral and written presentations.

ECH 4314 AUTOMATIC CONTROL I (3)
PR: ECH 3264, ECH 4265. Analysis of factors affecting process dynamics. Instrumentation required for control system design. Modes of control. Descrete logic operations. Stability. Design case studies. Lec./Lab.

ECH 4403C TRANSPORT PROCESSES III (3)
PR: ECH 4265C. Principles and analogy of momentum, heat and mass transport phenomena. Emphasis is given to the description of these phenomena from a microscopic point-of-view.

ECH 4415 REACTING SYSTEMS (3)
PR: ECH 4123, CHM 4412. CR: EMC 4522L. 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 4605C PROCESS ECONOMICS AND OPTIMIZATION (3)
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 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 4711 ENVIRONMENTAL & REGULATORY ASPECTS OF BIOTECHNOLOGY (1)
PR: Senior standing in engineering or biology or CI. Consideration of environmental aspects of the biotechnology workplace such as worker health & safety and sanitary & sterilization practices. Also will discuss legal and regulatory aspects, quality control, and product testing and certification.

ECH 4745 THEORY AND DESIGN OF BIOPROCESSES (3)
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 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 5314 AUTOMATIC PROCESS CONTROL II (3)
PR: EMC 4314, 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 techniquess to design control systems. Z-transforms and descrete control in cluding PID, Dahlin, and deadtime compensations.

ECH 5746 INTRODUCTION TO BIOMEDICAL ENGINEERING (3)
PR: Senior standing in engineering or CI. Introduction to biomedical engineering, including transport phenomena in biomedical systems, biometerials, biomedical instrumentation, prosthetic devices, and clinical engineering. Open to non-engineering students with CI.

ECH 5747 SELECTED TOPICS IN CHEMICAL ENGINEERING BIOTECHNOLOGY (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 bi-

omedical 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 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 3354C. Fundamental and experimental concepts in soil mechanics with emphasis on soil properties, soil moisture, soil structure, and shearing strength.

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 4211 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 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 (2)
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: EGN 3331, 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 5104 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 5715 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 (1)
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 PRACTICES (2)
PR: EGN 3354C, 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 4122C 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 3354C. Fundamental and applied aspects of pipe flow, free surface flow, and unsteady flow for hydraulic systems.

CWR 4810 HYDRAULIC DESIGN (2)
PR: EGM 4816, ENV 4622. Design of hydraulic systems, including drainage, water supply, and flood control.

EES 5203 WATER QUALITY FOR ENGINEERS I (3)
PR: CI. An introduction to the form, structure, and chemical activities of the important processes which are essential to treatment of domestic, and industrial wastewater.

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)
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 4101 AIR POLLUTION CONTROL (3)
PR: EGN 3354C. Behavior and effects of atmospheric contaminants and the principles of making measurements in the air environment. Basic concepts of meteorology and control technology are discussed. Regulatory aspects and air pollution standards are covered.

ENV 4402 ENVIRONMENTAL ENGINEERING LABORATORY (1)
PR: CHM 3200. Laboratory experience in the measuring of environmental parameters.

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 3354C. 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 3354C. CR: 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: EMC 3001, 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 4552 ENVIRONMENTAL UNIT OPERATIONS AND PROCESSES LABORATORY (1)
PR: EGN 3354C. CR: ENV 4012. 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 5438 URBAN WATER TREATMENT THEORY AND DESIGN (3)
PR: ENV 4417 and CI. A study of the theory of water treatment and the relation of theory to analysis and design practice. Emphasis is given to unit processes. The course is devoted to the design and analysis of specific water treatment facilities.

ENV 5539 URBAN WASTEWATER TREATMENT THEORY AND DESIGN (3)
PR: ENV 4417, CI. A study of the theory of wastewater and the relation of theory to analysis and design practice. Emphasis is give to unit processes. The course is devoted to the design and analysis of specific wastewater treatment works.

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 3331. 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 queing, 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 5600 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 sys-

tems; 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 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: Semester I course. 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.

CIS 4610 SOFTWARE ENGINEERING (3)
PR: COP 4400. The principles of information engineering using current and emerging computer systems technologies and information theory will be presented and applied. This would include pc-main frame links, local-area/wide-area networks, advanced generation integrated software facilities and artificial intelligence/knowledge based systems.

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. 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 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 and MAC 3283 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.

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, COT 3100, or CC. Introduction to the theory and application of various types of computing devices and the languages they recognize.

COT 4400 ANALYSIS OF ALGORITHMS (3)
PR: EEL 4851C and COT 3100. 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 4757. Laboratory for Microprocessor use and evaluation.

EEL 4757 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 4860C SOFTWARE ENGINEERING (3)
PR: Senior standing in Computer Science or CC: COP 3002, EEL 4851. Methods of designing and developing effective and efficient computer programs. Top-down design, structured programming, debugging and program analysis are addressed.

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 4781C DISTRIBUTED PROCESSING AND COMPUTER NETWORKS (3)
PR: COP 4600, CDA 4100. Design and analysis of distributed processing systems. Covers communication hardware and software, network operating systems, and reliability enhancement techniques.

EEL 5706 TESTING AND FAULT TOLERANCE (3)
PR: CDA 4101, COT 4130, or graduate standing. Reliability concepts, fault analysis and diagnosis in digital circuits, fault modeling, fault tolerant design, CMOS testability, self-checking circuits, design for testability, fault masking techniques, and fault simulation.

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. 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, transfer function solutions and concludes with a brief look at thermal and mechanical systems analysis. The programs used include SUPER*SCEPTRE, SPICE 2, NASAP and others.

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 4512 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 4572 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 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 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
Analysis technique for AC power systems.

EEL 5344 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 5388 LOW NOISE ELECTRICAL CIRCUITS (3)
PR: EEL 3302. Noise sources, circuit noise representations, noise in diodes, bipolar transistors, field-effect transistors and sensors, low noise circuit design and noise measurements.

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 5620 NONLINEAR CONTROL SYSTEMS (3)
PR: EEL 4657. Principles of state-variables, phase-plane and describing functions.

EEL 5631 DIGITAL CONTROL SYSTEMS (3)
PR: EEL 4657. Sample data and digital control processes.

EEL 5705 ADVANCED LOGIC SYSTEMS (3)
PR: EEL 4705 or Graduate Standing.

EEL 5706 TESTING & FAULT TOLERANCE IN DIGITAL SYSTEMS (3)
PR: CDA 4101, COT 4130, or graduate standing. Reliability concepts, fault analysis & diagnosis in digital circuits, fault modeling, fault tolerant design, CMOS testability, self-checking circuits, design for testability, fault masking techniques, and fault simulation.

EEL 5754 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 5755 DIGITAL SIGNAL PROCESSING I (3)
PR: CC. or EEL 4102. Digital signals and Fourier transform. Z transform, digital filter networks. DFT, DCT and fast transforms. Design of IIR and FIR filters; quantization effects. Multi-rate processing; interpolation and decimation.

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 4306L LABORATORY 4 (1)
PR: ELR 3301L CR: EEL 4411.

ENGINEERING TECHNOLOGY

ETG 4931 SPECIAL TOPICS IN TECHNOLOGY I (1-5)
PR: CC.

ETG 4932 SPECIAL TOPICS IN TECHNOLOGY II (1-5)
PR: CC.

ETI 3101 INDUSTRIAL STATISTICS (3)
PR: ETK classification. Industrial applications of probability, testing of hypotheses, regression techniques and analysis of variance. (No credit for engineering majors.)

ETI 4600 INTRODUCTION TO INDUSTRIAL SYSTEMS (3)
PR: ETK classification or CC. Introduction to organizational planning and control functions in industrial systems.

ETI 4614 PRINCIPLES OF INDUSTRIAL OPERATIONS I (3)
PR: ETK classification or CC. Techniques of work measurement and methods design; principles of production control and inventory control.

ETI 4661 PRINCIPLES OF INDUSTRIAL OPERATIONS II (3)
PR: ETI 4600, ETI 4614, or CC. Application of techniques developed to the operation of an industrial firm through special projects.

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 4312L 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 4313L HUMAN FACTORS (3)
Design of man-machine systems, by taking into consideration both human and machine capabilities and limitations.

EIN 43343PRODUCTION CONTROL (3)
PR: ESI 4312. Planning and control of production suystems.Includes: forecasting and inventory control models, scheduling and sequencing, MRP, CPM/PERT, and resource requirements.

EIN 4364L PLANT FACILITIES DESIGN I (3)
PR: EIN 4312L EIN 441. 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 4411L MANUFACTURING PROCESSES (3)
PR: EGN 3365. The study of basic manufacturing processes and precision assembly. CAD/CAM including NC programming.

EIN 4601 AUTOMATION AND ROBOTICS (3)
PR: EIN 4395I. 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 5218 HAZARDS CONTROL ENGINEERING (3)
PR: Senior or graduate status. Open to non-majors. Nature of industrial accidents. Practices, standards, OSHA, and other governmental requirements for reducing accident frequency and severity in the industrial environment. Design measures for the prevention of health impairment due to non-accidental causes.

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 5381C LOGISTICS ENGINEERING (3)
PR: EGN 3443 or equivalent. Principles and practices of Logistics Engineering are covered. System requirements, logistics support analysis, test and evaluation are considered.

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 4161 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. A continuation of ESI 4314 with emphasis given to 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 4315. 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 4573 NUMERICAL METHODS (3)
PR: EGN 2210, one calculus course or CI. Numerical algorithms and methods for applications to engineering problems. Applications using FORTRAN language.

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 364, 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 5233 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 4521 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)

CDA 3100 SC INTRODUCTION TO COMPUTERS II (3)
PR: CGS 3060. Number systems, internal representation of data and instructions, algorithms and flowcharting. Introduction to machine and assembler language and higher level language.

CDA 3101 SC INTRODUCTION TO COMPUTERS III (3)
PR: CDA 3100. Continuation of CDA 3100. Introduction to large computer systems assembler language and applications.

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 3060 SC INTRODUCTION TO COMPUTERS AND PROGRAMMING IN BASIC -6A (3)
An overview of computer systems and their role in society. Survey of the evolution of computer software and hardware technology with emphasis on current applications. Introduction to programming using the BASIC language.

CGS 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 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.

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.

MECHANICAL ENGINEERING

EAS 4121 HYDRO AND AERODYNAMICS (3)
PR: EGN 3354, MAP 4302. Advanced fluid dynamics, ideal and viscous flows, applications to flow around immersed bodies.

EAS 5100 AERODYNAMICS (3)
PR: EGN 4355, and CI. Fundamentals of aerodynamic flow and flight including potential theory, circulatory theory, viscosity considerations, wing theory and design.

ECH 3702 INSTRUMENT SYSTEMS (4)
PR: EGN 3373. Applications of analog and digital devices to instrumentation problems in chemical and mechanical engineering. Basis electrical measurements. Computer assisted measurements and process monitoring.

EMC 5191C HEAT TRANSFER PROJECTS (3)
PR: CI. Industrial design projects in the heat transfer field. Varies each term. May be repeated once for credit.

EML 3033 MECHANICAL ENGINEERING LAB I (3)
PR: EGN 3343, EMC 3301. 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 3264 KINEMATICS AND DYNAMICS OF MACHINERY (3)
PR: MAC 3282, PHY 3048. Kinematics of machines and mechanisms; position, velocity, and acceleration analysis of mechanisms; cams; gear trains; inertia forces in mechanisms; flywheels; balancing of rotating masses.

EML 3500 MACHINE ANALYSIS AND DESIGN I (3)
PR: EGN 3313. 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 3701C 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, simulaneous 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 4142 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 4222 VIBRATIONS (3)
PR: EML 3433 and EML 3264. Natural frequency, damping and resonance in single-degree-of-freedom systems. Vibration isolation and absorber. Lagrange's equations. Multi-degree of freedom systems. Introduction to vibration of continuous systems and predictive maintenance.

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 4312C 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 4419 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 4503 MACHINE ANALYSIS AND DESIGN II (3)
PR: EML 3500, EML 3264. Continuation of EML 3500. Antifriction bearings, journal bearings, power transmission, shafting.

EML 4551C PROJECT DESIGN I (3)
PR: Senior standing in mechanical engineering or CC. Comprehensive design or feasibility project requiring application of previously acquired engineering knowledge; use of ANSYS and CAD.

EML 4552C 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 (3)
Fundamentals of Sound Propagation; Sound Power and Intensity. Psychoacoustics; Industrial Noise sources and Methods of Attenuation; Instrumentation for Noise Measurements.

EML 5241 LUBRICATION (3)
PR: EML 4503 or CI. The theoretical basis for lubrication and bearing theory. The study of lubrication requirement of different machine types. Introduction to gas bearings.

EML 5315 MACHINE CONTROL SYSTEMS (3)
PR: EMC 4312 or CI. Machine control system components and their effects on closed loop system performance. Transfer characteristics of hydraulic, pneumatic and electrical elements and processes.

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 5504 MECHANICAL DESIGN OF PROCESS EQUIPMENT (3)
PR: EML 3500. Design of thin wall pressure vessels, ASME codes, flanges, joints, gasketed surfaces, supports and foundations.

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.

ENU 4142 INTRODUCTION TO NUCLEAR ENGINEERING (3)
PR: ECH 3702, EML 3701 or CI. Fundamentals of nuclear reactors, core physics, and fuel enrichment, reactor power cycles, transient reactor performance.

COLLEGE OF FINE ARTS

ART

Acting Chairperson: B. Marsh; *Distinguished Professor - Dean Emeritus:* D. J. Saff; *Dean Emeritus - Professor Emeritus:* H. W. Covington; *Professors:* E. L. Cox, A. B. Eaker, C. J. Fager, R. W. Gelinas, J. M. Kronsnoble, M. R. Larsen, C. P. Lyman, B. L. Marsh, M. A. Miller, G. Pappas; *Associate Professors:* T. E. McLaughlin, B. J. Nickels, D. R. E. Wright, T. F. Wujcik; *Assistant Professors:* S. Davis, V. Hirt, L. Marcus, H. Szepe, J. Wein; *Lecturer:* D. H. Elmeer; *Other Faculty:* D. L. Rosenzweig, D. Warnock.

DANCE

Acting Chairperson: D. McWaters; *Professors:* L. D. Berger, W. G. Hug;, G. W. Warren *Associate Professors:* S. W. Robinson, L. Wimmer; *Assistant Professors:* M. W. Katz, J. E. Parks; Adjuncts: C. Griffith, G. Lund, K. McBee, K. Silver, N. Spector.

MUSIC

Chairperson: J. J. Heller; *Professors:* J. Abram, F. T. Borkowski, V. A. Bridges, L. R. Cullison, 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:* C. P. Doane, 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. Robinson, A. J. Summer, M. B. Thompson, N. R. Warfield; *Assistant Professors:* R.Blake, E. H. Cumming, K. C. Holm, B. C. Karp, R. M. Keefe, J. K. Khorsandian, J. L. S. Moore, J. B. Moorehead, P. Reller, J. W. Richmond, W. S. Woodruff; *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, J. J. Heller; *Associate Professor:* C. P. Doane; *Assistant Professor:* J. L. S. Moore, J. W. Richmond.

THEATRE

Chairperson: J. R. Hancock; *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 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 4790 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 4796 CRITICAL STUDIES IN ART HISTORY -6A (4)
PR: CI. Specialized intensive studies in art history. Specific subject matter varies. To be announced at each course offering. May be repeated for different topics only.

ARH 4937 SEMINAR IN THE HISTORY OF ART HISTORY (4)
PR: Four courses in Art History at the 4000 level, CI. An examination of the origins of Art History as a discipline and changing nature of Art History from Vasari to the present.

ARH 5333 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.)

ART 2202C 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 3001 INTRODUCTION TO ART -6A (4)
An expanded introductory treatment of basic concepts. For art majors and non-art majors.

ART 3110C CERAMICS I (4)
PR: Visual Concepts II and Introduction to Art. Intermediate problems in ceramics and emphasis on the exploration of methods and media and the development of individual concepts.

ART 3225 INTRODUCTION TO COMPUTER IMAGES (4)
PR: ART 2202 and ARH 3001. An introductionto 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: Visual Concepts I and Introduction to Art. Drawing as a means of formal organization. Introduction to intermediate drawing methods and media.

ART 3420 LITHOGRAPHY I (4)
PR: Visual Concepts I. Introduction to Art and Drawing I. Intermediate problems in lithography with emphasis on the exploration of methods and media and development of individual concepts.

ART 3468 MULTI-MEDIA PRINTMAKING (4)
PR: ART 2202C, ART 3001, ART 3301C. Investigation of Printmaking Media including: monoprinting, collograph, relief printing and the dimensional print with emphasis on the development of individual concepts.

ART 3469 PHOTO-PRINTMAKING (4)
PR: ART 2202C, ART 3001, 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 3470 INTAGLIO I (4)
PR: Visual Concepts I. Introduction to Art and Drawing I. Intermediate problems in intaglio with emphasis on the exploration of methods and media and the development of individual concepts.

ART 3510C PAINTING I (4)
PR: Visual Concepts I, Introduction to Art, and Drawing I. Intermediate problems in painting with emphasis on the exploration of methods and media and the development of individual concepts.

ART 3701C SCULPTURE I (4)
PR: Visual Concepts II and Introduction to Art. 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: Visual Concepts I, II and Introduction to Art 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 4225 ADVANCED COMPUTER IMAGES (4)
PR: ARH 3000, ART 2202, and ART 3225. A continuing study of the micro-computer as a tool for the visual arts. A course i 2-D image creation and manipulation. Available to majors and non-majors.

ART 4226 COMPUTER ANIMATION (4)
PR: ARH 3000, ART 2202, ART 2203, and ART 3225. 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 problems in drawing. May be repeated.

ART 4421C LITHOGRAPHY II (4)
PR: ART 3420. Continued problems in lithography. May be repeated.

ART 4471C INTAGLIO II (4)
PR: ART 3470. Continued problems in intaglio. May be repeated.

ART 4520C PAINTING II (4)
PR: ART 3510C. Continued problems 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 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 problems in the various ceramic techniques, including throwing and glaze calculation. May be repeated.

ART 5340C DRAWING (4)
PR: ART 4320C. Advanced problems in various drawing techniques. Emphasis on individual creative expression. May be repeated.

ART 5422C LITHOGRAPHY (4)
PR: ART 4421C. Advanced problems 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 5532C PAINTING (4)
PR: ART 4520C. Advanced problems 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 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, conservation, writing of grants or museum education. (Students are eligible after completing one semester in the program.) May be repeated up to 8 credit hours. (S/U only.)

ART 5910 RESEARCH (1-4)
PR: CC. May be repeated.

ART 5936 STUDIO TECHNIQUES: SELECTED PROJECTS (2)
PR: Visual Concepts I, II and Introduction to Art, the topictechnique-related 3000-4000 level studio sequence and CI. Concentration in specialized technical data and process. 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 3410C PHOTOGRAPHY I (4)
PR: Visual Concepts I and Introduction to Art. Intermediate problems in photography with emphasis on the exploration of materials and media and the development of individual concepts.

PGY 3510C CINEMATOGRAPHY I (4)
PR: Visual Concepts I and Introduction to Art. Intermediate problems in cinematography with emphasis on the exploration of materials and media and the development of individual concepts.

PGY 4410C PHOTOGRAPHY II (4)
PR: PGY 3410C. 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 TECHIQUES (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 IMPROVISATIONS (2)
PR: DAA 2100 or DAA 2200 or CI. 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 by 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)
PR: DAA 2100 or DAA 2200 or CI. 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 syles. 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.

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 (2)
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 2201 level determined by faculty jury. Private instruction in originial 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 (formerly MUC 4405, 4406) 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 3016 SURVEY OF JAZZ (2)
An in-depth study of the historical study of jazz, including the representative music, literature, and sociological implications.

PGY 5425C PHOTOGRAPHY (4)
PR: CI. Advanced work in photography and related media leading to development of personal/expressive statements. May be repeated.

MUH 3019 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 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.

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.

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.

MUL 3001 ISSUES IN MUSIC (2)
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 3011, 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.

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(formerly MUN 3451) PIANO ENSEMBLE (1)
MUN 3713 JAZZ ENSEMBLE (1)
MUO 3501 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 3433 BRASS CHOIR (1)
MUN 3432 HORN QUARTET (1)
MUN 3431 (formerly MUN 3436) BRASS QUINTET (1)
MUN 3443 PERCUSSION ENSEMBLE (1)
MUN 3444 MARIMBA ENSEMBLE (1)
MUN 3473 COLLEGIUM MUSICUM (1)
MUN 3711 JAZZ CHAMBER ENSEMBLE (1)
MUN 3483 CLASSICAL GUITAR ENSEMBLE (1)
MUS 3001 RECITAL ATTENDANCE (0)

This course is required whenever a student registers for applied music. This 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 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.

MUN 3490 NEW MUSIC ENSEMBLE (1)

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 orchestation, 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 the students own 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 (1-4)
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 as such does not count toward the graduate degree requirements.

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.

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 2811 INTERMEDIATE PIANO (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: 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 three semesters only. 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 2324JAZZ 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: 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 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: 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 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: CI. 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 GUITAR 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)
MVV 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)
MVV 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)

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)

MUSIC EDUCATION

MUE 2090 THEORETICAL BASES OF MUSIC EDUCATION (2)
The course is designed to investigate music education practices in the schools. It provides the student with experience and information early in his academic career which will enable him to determine his commitment to professional music education.

MUE 3421 CHORAL MATERIALS PRACTICUM (1)
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)
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)
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)
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)
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)
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 TECHIQUES (1)
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)
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)
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)
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 4940. Synthesis of teacher candidate's courses in complete college program. Required concurrently with internship.

MUE 4940 INTERNSHIP: MUSIC EDUCATION (1-12)
One full semester of internship in a public or private school. Intern takes Senior Seminar in Education concurrently. 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 means and materials of theatre, the nature of theatre forms, the concepts of Total Theatre, and the basic issues in American theatre today. 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 3080C MODERN THEATRE PRACTICE -6A (4)
Initial readings and exercises in theatre; play analysis, performance, and technical theatre for non-theatre majors.

THE 3110 THEATRE HISTORY (4)
A survey of all facets of theatrical performance in selected periods of theatre history from the 5th Century B.C. to the present. Normally ten plays will be read. Required of all theatre majors. Open to non-majors.

THE 3925 PRODUCTION INVOLVEMENT (1)
The rehearsal, construction, production of major theatrical works. THE 4927 or this course is required of all majors and minors. Assignments are made contractually at the time of registration. Open to non-majors on a credit or noncredit basis. May be repeated.

THE 4180 THEATRE ORIGINS (4)
PR: Completion of first three years as a theatre major and one from the following: THE 4320, THE 4330, THE 4370, THE 4401, THE 4442, THE 4480; or CI. An analysis of the development of theatre out of myth, ritual, and liturgy. Emphasis placed on what attempts to understand the resulting phenomena 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 3110. 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 non-majors with CI.

THE 4330 SHAKESPEARE FOR THE THEATRE (3)
PR: THE 3110. A close study of selected plays with special emphasis on their performance values. Open to non-majors with CI.

THE 4370 THE 19TH CENTURY THEATRE REVOLUTION (3)
PR: THE 3110. Survey of the European art theatre revolution against the romantic realism of the commercial stage and its effect on subsequent theatre activity. Open to non-majors with CI.

THE 4401 O' NEILL AND AFTER (3)
PR: THE 3110. A course in the function of the script for the theatre artist treating materials in the American Theatre from 1915 to 1964.

Open to non-majors with CI.

THE 4442 THE COMEDY OF THE CLASSIC AND NEO-CLASSIC STAGE (3)
PR: THE 3110. 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 non-majors with CI.

THE 4480 DRAMA-SPECIAL TOPICS (3)
PR: THE 3110. A study of a significant playwright or grouping of playwrights, e.g. Moliere, Brecht, recent American dramatists. Open to non-majors with CI.

THE 4562 SENIOR COLLOQUIUM (4)
PR: Completion of first three years as a theatre major 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 literaure, 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 4722 THEATRE FOR PRE-SECONDARY SCHOOLS: THE PRODUCTION PROCESS (3)
Play production process as it applies to theatre artist-in-schools programs, including development of related classroom workshops and preparation of study guides and preparational program materials as well as design, director and rehearsal of play and touring groups.

THE 4723 THEATRE FOR PRE-SECONDARY SCHOOLS: THE PERFORMANCE PROCESS (3)
The artistic process of performing for various school audiences and practice of conducting classroom workshops folwoing each performance.

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, communiy and professional theatres.

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)
PR: CC. 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 study, rehearsal and performance of major theatrical works. Admission by audition. THE 3925 or this course required of all majors and minors. May be repeated. Additional credit may be earned with THE 4905 or THE 5909.

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: 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. Open to non-majors. The basic materials, equipment, and skills used in scenic construction and painting for theatrical productions. An introductory course with lab.

TPA 2223 THEATRE CRAFTS: LIGHTING (3)
Required of all design majors. This course or TPA 2230 is required of all theatre majors. Open to non-majors. The basic equipment and skills used in lighting stage productions. An introductory course with lab.

TPA 2230 THEATRE CRAFTS: COSTUME (3)
Required of all design majors. This course or TPA 2223 THEATRE CRAFTS: LIGHTING 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. 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.

TPA 3250 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. Lecture and Laboratory.

TPA 3601 STAGE MANAGEMENT (2)
PR: TPA 2200, TPA 2223, or TPA 2230. 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 additonal 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 4211 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 2230 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 4211, 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 4081 SCENE PAINTING (2)
PR: TPA 3086. A practical course in the painting of stage scenery: media and application. Open to non-majors with CI.

TPA 4208 STAGECRAFT AND DRAFTING (3)
PR: TPA 3086. A practical course in drafting for the stage, scenic construction and application. A requirement in the design/scenic and lighting.

TPA 4231 COSTUME CONSTRUCTION (3)
PR: TPA 3086, TPA 2230 or CI. 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.

TPA 4082 STAGE PROPERTIES: TECHNIQUES AND MATERIALS STUDIO (2)
PR: TPA 3086. Demonstration of and experience with materials used in construction of stage properties. Modeling of prototypes and basic casting techniques. Organization of shop. Open to non-majors.

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. May be taken by 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 3122 IMPROVISATION II (3)
PR: TPP 3121; audition. A concentrated study of advanced techniques in improvisational skills as applied to the use of scenario. Depending on ensemble capabilities, the course will culminate in a classroom improvisational presentation. Open to non-majors with PR.

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. Open to upperlevel non-majors with CI. May be repeated for credit.

TPP 3580 SPECIAL SKILLS IN MOVEMENT (2)
PR: TPP 3500. Stage combat, circus and acrobatic techniques, and other special techniques of movement. Repeatable for credit. Open to non-majors with CI.

TPP 3790L 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. Open to upper-level non-majors with CI. May be repeated for credit.

TPP 4140 STYLES OF ACTING (3)
PR: TPP 4150 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 4152, 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 CI. Preparation for professional audition; discussion of professional objectives.

TPP 4230 LABORATORY WORKSHOP IN PERFORMANCE (3)
PR: TPP 3111 and/or CI. Special workshop in advanced techniques based upon individual problems and needs. May be repeated twice (for a total of 9 hours credit).

TPP 4250 MUSIC THEATRE WORKSHOP (3)
PR: TPP 3111 or CI. Special problems in acting as applied to the musical theatre with emphasis on singing and dance.

TPP 4310, 4311 DIRECTING I, II (3,3)
PR: TPP 4150. 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 4610 WRITING FOR THE THEATRE I (3)
PR: Completion of the first two years as a theatre major or CI. 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. Advanced work on full length plays is available with CI. May be repeated for credit. Open to non-majors with CI.

TPP 4920 SENIOR WORKSHOP FOR ACTORS (3)
PR: TPP 4180, TPP 3500, TPP 3790L. A workshop in advanced vocal and movement techniques. Required for all theatre majors with a performance concentration.

COLLEGE OF NURSING

Dean: J. A. Plawecki; *Professors:* S. Bishop, F. Carbonell, D. Hymovich, L. Moody, O. Riggin; Adjunct Professor: V. Ross; *Associate Professor:* S. Boyd, C. Burns, N. Entrekin, J. Gregory, C. Lengacher, L. Lopez, S. McMillan, B. Redding; *Visiting Associate Professor:* P. Byers; *Assistant Professors*: J. Larson-Presswalla, C. Long, L. Lowry, A. McMahon, M. Rose, C. Selleck, R. Sisson, M. Tittle, S. Torres, M. L. Vancott; *Visiting Assistant Professors:* M. Albers, P. Cornett, C. Gilbert, P. Gorzka, D. Heinemann, J. Merritt, C. Ross, J. Thorton, M. A. Thurkettle; *Instructors:* J. Bezon, P. Karp, G. Mercer, K. Miller, M. A. Notarianni; *Visiting Instructors:* J. Aertker, C. Conn, K. Echevarria, R. Futtrell, M. Kapatkin, S. Pickard-Holley, S. Verbosky; *Courtesy Instructor:* K. Kent

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 senscence, 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 3066C. 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 3066C 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 3067C 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 3117 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 3117, 3066C, 3067C, 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 intrapartal and post-partal parenting experiences, and selected high risk childbearing situations.

NUR 3456L NURSING INTERVENTION II (3)
PR: NUR 3117, 3066C, 3067C, 3615, 3615L. Clinical nursing practice course linked with NUR 3456. Focuses on nursing of normal and selected high-risk maternal-newborn clients during normal intrapartal and post-partal parenting experiences. Includes experience in primary and secondary care settings.

NUR 3536 NURSING PROCESS III (2)
PR: NUR 3117, 3066C, 3067C, 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 3536L NURSING INTERVENTION III (2)
PR: NUR 3117, 3066C, 3067C, 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 3066C 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 3829 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 3835 LEADERSHIP MANAGEMENT ASPECTS IN COMMUNITY HEALTH NURSING (2)
PR: NUR 3067C 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 4075 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 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 4256 NURSING PROCESS V (2)
PR: NUR 3456, 3456L, 3536, and 3536L. 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, 3536, and 3536L. 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 alterations 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 4285C NURSING PROCESS IV (1)
PR: NUR 3456, 3456L, 3536, and 3536L. Nursing of the well elderly in primary care settings. Includes aging theories; bio-psychosocial assessment; therapeutic relationships; nutritional, psychosocial, and socio-economic factors related to the health of the elderly.

NUR 4707 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 4707L 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 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.

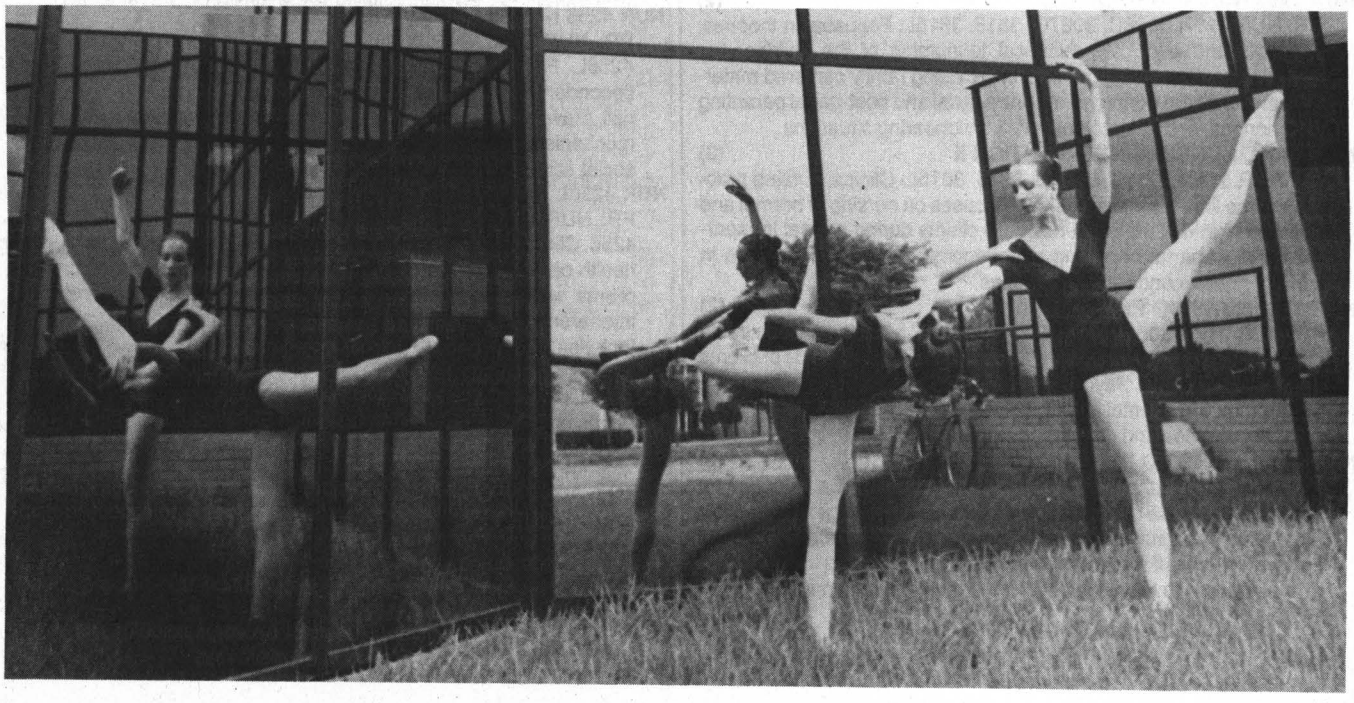
NUR 4935 SELECTED TOPIC IN NURSING (2-8)
PR: Junior or senior standing or permission of faculty. Content will depend upon student demand and faculty interest and may focus on any area relevant to nursing practice. May involve class, seminar, and/or clinical laboratory and may be repeated for different 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 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 4946L 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 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.



COLLEGE OF PUBLIC HEALTH

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 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.

PHC 4930 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.

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Suncoast Gerontology Center	ERIC PFEIFFER
Diabetes Center	JOHN T. MALONE

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Assistant Dean for Student Affairs (Acting)	PATRICIA A. GORZKA

College of Public Health

Dean	PETER J. LEVIN
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Florida Center for Urban Design & Research	DAVID A. CRANE
Florida Institute of Oceanography	JOHN C. OGDEN
Institute on Black Life	JUEL H. SMITH
International Affairs Center	MARK T. ORR
International Exchange Center on Gerontology	HAROLD L. SHEPPARD
Records & Registration (Acting)	LINDA J. CROSSMAN
SUS Extension Library	VIRGINIA O'HERRON
University Library (Acting)	SAMUEL FUSTUKJIAN

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Associate Dean	TBA
Associate Dean	TBA
Assistant to the Dean	TBA
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Coordinator of Advising	ALBERT A. LATINA

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Communication Science & Disorders	ARTHUR M GUILFORD
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Geology	MARK STEWART
Gerontology	LARRY MULLINS
Government and International Affairs	SUSAN MAC MANUS
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Humanities	AMY J. SPARKS
Marine Science	PETER R. BETZER
Mass Communications	DONNA DICKERSON
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Social Work	BONNIE YEGIDIS
Sociology	RAY WHEELER

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Women's Studies	JANICE SNOOK

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Associate Dean of Graduate Studies and Research	ROBERT L. ANDERSON
Academic Director of Executive MBA Program	STEVEN A. BAUMGARTEN

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Finance	GEORGE KANATAS
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Marketing	PAUL J. SOLOMON

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Small Business Development	WILLIAM MANCK
Professional Development Center	MARYANNE M. ROUSE
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Associate Dean, Programs	EVELYN SEARLS
Asst. Dean, Community Relations	DICK PUGLISI

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Educational Leadership	DONALD ORLOSKY
Educational Measurement / Research	BRUCE HALL
Music Education	JACK HELLER
Physical Education	HUBERT HOFFMAN
Psychological and Social Foundations	JAMES BARNARD
Secondary Education	HOWARD JOHNSTON
Special Education	JAMES PAUL

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Academic Computing	ANDRIA TROUTMAN
Center for Economic Education	DICK PUGLISI
Children's Center	JAMES W. BARNARD
Florida Center of Instructional Computing (Acting)	STEPHANIE VAN DEVENTER
Graduate Studies	EVELYN SEARLS
Sponsored Programs & Program Review	JUDY WILKERSON
Institute for Instructional Research and Practice	CAROLYN LAVELY
Institute for At-Risk Infants, Children and Youth and their Families	CAROLYN LAVELY
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South Florida Educational Planning Council Director	TBA
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Teacher Education Center	PHILIP PFOST
West Central Regional Management Network	MARILYN KATZENMEYER
SunCoast Area Teacher Training Center for Excellence Research Program	CONSTANCE HINES

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Associate Dean	JOHN W. COKER
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Dance (Acting)	DEBRA MC WATERS
Music	JACK HELLER
Theatre	JIM HANCOCK
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SYCOM	PAUL RELLER
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Coordinator:	
Fine Arts Events	CARL MUSSON
Production	PATRICK FINELLI

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Deputy Director, Programs	TBA
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Department of Aging & Mental Health	LARRY SCHONFELD
Department of Child & Family Studies (Acting)	LUANNE PANACEK-HOWELL
Department of Community Mental Health	MICHAEL KNOX
Department of Law & Mental Health	RICHARD M. SWANSON
Department of Epidemiology & Policy Analysis	ROBERT M. FRIEDMAN

School of Extended Studies

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Division of Lifelong Learning & Conferences and Institutes	LEE LEAVENGOOD
Information Services	NAN KUTCHER
Division of Special Programs	RICHARD TAYLOR
College of Arts and Sciences	
International Language Institute	CAROL VROMAN
College of Business Administration	
Center for Organizational Effectiveness	HAROLD M. SCHRODER
Center for Professional Development	MARYANNE M. ROUSE
Executive MBA	STEVEN A. BAUMGARTEN

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Academic Administrator	PATRICIA R. PEKOVSKY
Chair, USF Press Editorial Board	RICHARD F. DIETRICH

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Director, Career Resource Center	GLENDA F. LENTZ
Director, Evaluation and Testing	TBA
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Coordinator, Athletes Advising	KEVIN MARONIC
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Coordinator, Student Support Services	JOAN HOLMES
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Army ROTC	LT COL HOWARD M. ABNEY

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Humanities	TBA
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Director, Finance & Accounting	ERIC L. WALDEN
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Director, Resource & Planning	TBA
Director, Physical Plant	ADRIAN CUARTA
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Director, University Personnel Relations	TRUDIE E. FRECKER
Director, Telecommunications	GEORGE W. ELLIS

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Associate Vice President, Housing and Auxiliary Services	RAYMOND C. KING
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Associate Dean of Students	WANDA LEWIS-CAMPBELL
Associate Dean of Students	VANESSA DIAZ-BETTON
Assistant to the Associate Dean of Students	FARAH KHORSANDIAN-SANCHEZ
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Director, Student Health Services	MARIA ANDERSON
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Director, USF Sun Dome	MICHASEL LA PAN

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Director, Media Relations & Publications	DANIEL CASSEDAY
General Manager, Public Broadcasting	JAMES B. HECK

FACULTY

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, as of August 7, 1990. (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

ABADIA, ANTONIO, Assistant Professor (Anesthesiology), 1990
B.S., M.D., University of Puerto Rico, 1985

ABNEY, HOWARD M., Jr., LTC, Professor (Military Science), 1988
B.S., M.E., Ed.S, University of Georgia, 1983

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

ADELMAN, HAROLD M., Associate Professor (Internal Medicine), 1988
B.A; M.D., Bologna University, 1969

AGOSTI, STEVEN J., Visiting Assistant Professor (Pathology), 1990
B.S.; M.D., Medical College of Virginia, 1985

AERTKER, JEAN H., Visiting Instructor (Public Sector Medicine-Nursing), 1985
B.S., M.S.N., University of South Florida, 1984

AIBA, MASAHIRO, Associate in Research (Surgery), 1989
M.D., Showa University School of Medicine, 1985

AL-ARIAN, SAMI A., Assistant Professor (Computer Science and 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

ALBRINK, MICHAEL H., Assistant Professor (General Surgery), 1989
B.S.; M.D, Ohio State University, 1978

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, NOLA A., Associate Professor (Interdisciplinary Social Science), 1979
B.A., LL.B., J.D.; M.A.; M.B.A.; Ph.D., University of Notre Dame, 1979

ALLISON, ELIZABETH A., Visiting Assistant Professor (English), 1989
B.A., B.A.; M.A., University of Florida, 1983

ALLMON, WARREN D., Assistant Professor (Geology), 1988
A.B; Ph.D., Harvard University, 1988

ALLYN, JANET F., Visiting Director (Child Development, Education), 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 - Chairperson (Biology), 1966
B.S., M.S., Ph.D., University of Florida, 1964

AMEN, MICHAEL J., Associate Professor (Interdisciplinary Social Sciences), 1982
B.A.; M.A.; Ph.D., University of Geneve, 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 (Counselor Education), 1987
B.A.; M.A., Ed.S., Ph.D., University of South Florida, 1984

ANDERSON, E. CHRISTIAN, Professor (Psychological and Social Foundations Education), 1964
B.S., M.A., Ph.D., University of Michigan, 1964

ANDERSON, MELVIN W., Professor - Associate Dean (Civil Engineering and Mechanics), 1969
B.S., M.S., Ph.D., Carnegie - Mellon University, 1967, P.E.

ANDERSON, NANCY A., Assistant Professor (Childhood Education), 1985
B.S.; M. Ed., Ed. D., University of Southern Mississippi, 1982

ANDERSON, ROBERT L., Associate Dean-Professor (Business Administration), 1971
B.S., M.S.; Ph.D., North Texas State University, 1971

ANDREWS, ANTHONY P., Chairperson-Professor (Social Sciences), New College of USF, 1981
B.A.; M.A., Ph.D., University of Arizona, 1980

ANGEL, JEFFREY L., Assocate Professor (Obstetrics and Gynecology), 1984
B.S.; M.D., University of South Florida, 1980

ANGROSINO, MICHAEL V., Professor (Anthropology), 1972
B.A.; Ph.D., University of North Carolina, 1972

ANKER, JAMES M., Dean - Professor (Graduate School), Professor (Psychology), 1974
A.B., M.A., Ph.D., Catholic University of America, 1957

ANTHONY-DAVIS, BRENDA, Visiting Instructor (FMHI). 1984
B.S.; M.A., Antioch University, 1984

ANTON, JOHN P., Professor (Philosophy-Classics), 1982
B.S., M.A., Ph.D., Columbia University, 1954

APFELBECK, NORMA R., Visiting Assistant Professor (College Administration, Education), 1989

ARATA, SATORU, Associate in Research (Medical Microbiology), 1989
B.S., M.S., Showa University, 1983

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, ADAM W., Assistant In (Public Health), 1988
B.S.; M.S.P.H., University of South Florida, 1988

ARMSTRONG, ROBERTA M., Coordinator - Counselor/Advisor (Academic Services), 1987
B.A., M.A., University of South Florida, 1987

ARNADE, CHARLES W., Professor - Coordinator (Lakeland Center), 1961
A.B., M.A., Ph.D., University of Florida, 1955

ARNOLD, DEBORAH, Counselor/Advisor (Academic Advising), 1989
B.A., M.ED., University of Florida, 1981

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

AUCREMANN, CHARLES E., Professor-Chairperson (Family Medicine), 1975
A.B., M.S., M.D., Emory University School of Medicine, 1943

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

AZAR, HENRY A., Professor (Pathology), 1972
B.A., M.D., American University of Beirut, Lebanon, 1952

BABIONE, LOIS, Assistant In Research (Pediatrics), 1980
B.S., M.S., Florida State University, 1975

BABU, ADDAGATLA J.G., Assistant Professor (Industrial & Management Systems Engineering), 1985
B.S., M.S.; M.A.; M.S.O.R.; Ph.D., Southern Methodist University, 1979

BAEKEY, PAUL, Assistant Professor (Pathology and 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

BAILE, WALTER F., Associate Professor (Cancer Education), 1986
B.A.; M.D., University of Pavia, Italy, 1972

BAKER, CARLETON H., Professor-Chairperson (Physiology), 1971
B.A.; M.A., Ph.D., Princeton University, 1955

BAKER, CAROL L., Visiting Instructor (Psychiatry and Behavioral Medicine), 1984
B.A.; M.S.W., Florida State University, 1973

BAKER, GREGORY R., Visiting Research Associate (VP for Research), 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., Professor (Pathology), 1978
M.D., National University of Athens, Medical School, Greece, 1957

BALL, WILLIAM L., Assistant in Research (Engineering), 1988
B.S.; M.A., University of South Florida, 1988

BALLESTER, CHRISTINA B., Visiting Assistant Professor (Psychiatry), 1988
MD., University of Buenos Aires, 1973

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

BANES, RUTH A., Associate Professor (American Studies), 1979
B.A., Ph.D., University of New Mexico, 1978

BANNISTER, JENNIFER K., Visiting Assistant In (Education), 1986
B.A., M.A., University of South Florida, 1978

BANOUB, SAMIR N., Professor (Public Health), 1983
M.D., D.M., D.P.H., Dr.P.H., Alexandria University, Egypt, 1979

BARBER, MICHAEL J., Associate Professor (Biochemistry), 1983
B.Sc., M.Sc.; Ph.D., University of Sussex, 1975

BARCLAY, LAURIE L., Assistant Professor (Neurology), 1988
B.A.; Cornell University, 1978

BARKHOLZ, GERALD R., Associate Professor (Childhood Education), 1968
B.S., M.Ed.; Ed.D., University of Florida, 1976

BARNARD, JAMES W., Professor-Chairperson (Psychological and Social Foundations Education), 1968
A.B.; M.A.; M.S., Ph.D., Yale University, 1963

BARNESS, LEWIS A., Professor (Pediatrics), 1972
A.B., M.D., Harvard Medical School, 1944 M.A. Hon.

BARNETT, RISA B., Visiting Instructor (Communication Sciences), 1989
B.A., M.A., University of Florida, 1984

BAROBS, BRIGITA M., Visiting Assistant In (Exceptional Child Education), 1988
B.A., University of Minnesota, 1984

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

BARRY, FRANCIS P., Visiting Research Associate (Biochemistry), 1990
B.Sc. , Ph.D., The National University of Ireland, 1984

BARTELS, LOREN J., Associate Professor (Surgery), 1980
B.A., M.D., University of South Florida, 1974

BARTLETT, ALTON C., Professor - Chairperson (Management), 1967
B.S.; Ph.D., University of Wisconsin, 1964

BARYLSKI, ROBERT V., Research Associate Professor, Sarasota Campus, 1979
B.A.; M.A., Ph.D., Harvard, 1972

BASS, DAWN A., Acting Academic Administrator (GraphicStudio), 1990
B.A., Unversity of South Florida, 1972

BATES, MARGARET L., Acting Provost/Professor (Social Sciences), New College of USF, 1975
B.A.; M.A.; D.Phil., Oxford, 1958

BATSCHE, GEORGE M., Jr., Associate Professor (Psychological and Social Foundations), 1989
B.A.; M.A., Ed.D., Ball State University, 1978

BATTANE, GARY R., Visiting Instructor (Crime & Deliquency, FMHI), 1986
B.A.; M.A., University of Detroit, 1977

BAUER-SARDINA, IRMA K., Assistant in Research (Pediatrics), 1988
B.A., Rutgers University, 1987

BAUM, ROSALIE M., Assistant Professor (English), 1987
A.B.; M.A.; Ph.D., University of Detroit, 1976

BAUMGARTEN, STEVEN A., Associate Professor (Marketing), 1976
B.I.E.; M.S., Ph.D., Purdue University, 1971

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, Student Affairs), 1972
B.A., M.A.; Ed.D., Nova University, 1975

BEASLEY, BOB L., Associate Professor (Physical Education, 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., Visiting Assistant Professor (Obstetrics/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

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

BELCHER, HAROLYN M., Assistant Professor (Pediatrics), 1989
B.S., M.D., Howard University, 1982

BELL, ELIZABETH E., Visiting Assistant Professor (Communications), 1988
B.S., M.A., Ph.D., University of Texas at Austin, 1983

BELL, JAMES A., Associate 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

BELT, JACK W., Associate Professor (Theatre Arts), 1966
B.A.; M.F.A.; J.D., University of Florida, 1967

BENADUSI, GIOVANNA, Assistant Professor (History), 1988
Ph.D., Syracuse University, 1988

BENFORD, STEPHEN A., Visiting Assistant In (Pediatrics), 1981
B.S., Purdue University, 1972

BENJAMIN, WILLIAM F., Professor (Educational Leadership Education), 1968
B.A., M.A., Ph.D., George Peabody College, 1961

BENSON, KAARON, Assistant Professor (Pathology), 1989
B.S.; M.D., Medical College of Pennsylvania, 1983

BENSON, ROBERT S., Visiting Assistant Professor (Chemistry), 1990
B.S.; M.S.; Ph.D., University of Arkansas, 1978

BENTLEY, MARY ANN M., Lecturer (Theatre), 1975
B.A., University of South Florida, 1962

BENTON, J. EDWIN, Associate Professor (Political Science), 1979
B.A., M.A.; Ph.D., Florida State University, 1978

BENTON, THELMA D., Academic Administrator (Undergraduate Studies, Academic Affairs), 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

BERGER, LAWRENCE D., Professor (Fine Arts), 1981
Professional Graduate Diploma, The Juilliard School, 1963

BERGER, NEAL H., Program Director/Assistant Professor (Education), 1985
B.A.; M.S.; Ph.D., Florida State University, 1984

BERGGREN, DOUGLAS C., Professor (Humanities), New College of USF, 1975
B.A.; M.A.; M.A., Ph.D., Yale University, 1959

BERMAN, CLAUDIA G., Assistant Professor (Radiology), 1989
B.A., Ed., Eastern Washington University, 1975

BERNARD,THOMAS E., Associate Professor (Public Health), 1989
B.S., M.S.; Ph.D., University of Pittsburgh, 1975
BESLEY, SCOTT, Associate Professor (Finance), 1982
B.S., M.B.A., Florida State University, 1974
BESOZZI, MICHAEL J., Assistant Professor (Radiology), 1988
A.B.; M.D., Jefferson Medical College, 1975
BESTERFIELD, GLEN H., Assistant Professor (Engineering), 1988
B.S.; M.S.; Ph.D., Northwestern University, 1989
BETANCOURT, SONIA B., Assistant In Research (Engineering), 1988
B.S., University of South Florida, 1988
BETZ, JOHN V., Associate Professor (Biology), 1963
B.S.C.; Ph.D., St. Bonaventure University, 1963
BETZER, PETER, Professor - Chairperson (Marine Science), St. Petersburg Campus, 1971
B.A.; Ph.D., University of Rhode Island, 1971
BEULIG, ALFRED, JR., Professor (Natural Sciences), New College of USF, 1975
B.S., M.S.; Ph.D., City University of New York, 1974
BEZON, JOAN F., Instructor (Nursing), 1989
B.S.N.; M.S.N., University of Rochester, 1985
BHETHANABOTLA, VENKAT R., Assistant Professor (Chemical Engineering), 1987
B. Tech.; M.S., Ph.D., Pennsylvania State University, 1987
BIERSDORF, WILLIAM R., Professor (Ophthalmology), 1978
B.S., M.S.; Ph.D., University of Wisconsin, 1954
BINFORD, JESSE S., JR., Professor (Chemistry), 1961
B.A., M.A.; Ph.D., University of Utah, 1955
BIRKIN, STANLEY J., Professor (Information Systems - Decision Sciences), 1969
B.S.C., M.S.C.; Ph.D., University of Alabama, 1969
BISHOP, INA M., Assistant Dean-Professor (Nursing), 1989
B.S.N., M.S.N., Ph.D., Indiana University, 1983
BLACKMAN, JOSEPH K., Visiting Coordinator-Professor (Education), 1988
B.A., M.A.; Ed.D., University of Massachusetts, 1975
BLACKSHEAR, WILLIAM M., JR., Associate Professor (Surgery), 1979
B.S.; M.D., Tulane Medical School, 1970
BLAIR, R. CLIFFORD,, Visiting Associate Professor (Pediatrics), 1975
B.A., M.A., Ph.D., University of South Florida, 1980
BLAKE, NORMAN J., Professor (Marine Science), St. Petersburg Campus, 1972
B.S.; M.S., Ph.D., University of Rhode Island, 1972
BLAKE, RONALD E., Assistant Professor (Music), 1990
B.M., Northwestern University, 1986
BLANCHARD, DARLENE K., Visiting Assistant Professor (Medical Microbiology), 1987
B.A.; M.S., Ph.D., University of South Florida, 1987
BLANCK, GEORGE, Assistant Professor (Biochemistry and Molecular Biology), 1990
B.A.; M.A., Ph.D., Columbia University, 1983
BLANK, WILLIAM E., Associate Professor-Chairperson (Adult and Vocational Education), 1976
B.S., M.S.; Ph.D., Florida State University, 1976
BLANTON, JAMES E., Assistant Professor (Information Systems and Decision Sciences), 1985
B.S.; M.B.A., Ph.D., University of Georgia, 1987
BLOCH, SYLVAN C., Professor (Physics), 1963
B.S., M.S., Ph.D., Florida State University, 1962
BLOCK-HILL, LYNDA B., Academic Administrator (Sarasota Campus), 1977
B.S., B.A.; The American University, 1971
BOCANEGRA, TOMAS S., Visiting Assistant Professor (Internal Medicine), 1990
M.D., Universidad Peruana Cayetano Heredia, 1974
BLOUNT, WILLIAM R., Professor-Chairperson (Criminology), 1968
B.A.; M.A.; Ph.D., George Peabody College, 1969
BOAZ, TIMOTHY L., Assistant Professor (FMHI), 1989
B.A., M.S.; M.A., Ph.D., University of Kansas, 1986
BOBO, MARSEENA L., Assistant In Education, 1990
B.S., Ohio State University, 1974
BOCANEGRA, TOMAS S., Visiting Assistant Professor (Internal Medicine), 1990
M.D., Universidad Peruana, Cayetano Heredia, 1974
BOCHNER, ARTHUR P., Professor-Chairperson (Communication), 1984
B.S.; M.A.; Ph.D., Bowling Green State University, 1971
BOGGS, ROY A., Assistant Dean-Associate Professor (Information Systems and Decision Sciences), Ft. Myers Campus, 1985
B.A.; M.A., Ph.D.; M.S.I.S., University of Pittsburg, 1977
BOLTEN, STEVEN E., Professor (Finance), 1978
B.S.; M.B.A., Ph.D., New York University, 1969
BONDI, JOSEPH C., JR., Professor (Educational Leadership Education), 1965
B.S., M.Ed., Ed.D., University of Florida, 1968
BORCHERT, JILL E., Assistant Professor (Political Science), 1990
B.S.; M.S.; Ph.D., University of California at Riverside, 1990
BORG, JEAN M., Visiting Instructor (Education), 1982
B.S., M.A., Prof. Degree., University of Illinois, 1967
BORGES, EDUARDO F., Visiting Assistant Professor (Neurology), 1990
M.D., Federal University of Pemambuco, Brazil, 1975
BORKOWSKI, FRANCIS T., University President, 1988
B.S.; M.M.; Ph.D., West Virginia University, 1967
BORMAN, WALTER C., Professor (Psychology), 1990
A.B.; Ph.D., University of California at Berkeley, 1972
BOSEK, VOJTECH, Assistant Professor (Anesthesiology), 1987
M.D., University of Prague, 1966
BOSTOW, DARREL E., Professor (Psychological and Social Foundations Education), 1970
B.A., M.A., Ph.D., Southern Illinois University, 1970
BOUIS, PIERRE J., JR., Associate Dean-Associate Professor (Continuing Education, College of Medicine) Professor (Obstetrics/Gynecology), 1984
B.S., M.S., M.D., Louisiana State University School of Medicine, 1971
BOWERS, LOUIS E., Professor (Physical Education, Education), 1967
B.S.; M.A.; Ph.D., Louisiana State University, 1964
BOWERS, RICHARD T., Director (Business Administration), 1963
B.S., M.S., Ed.D., George Peabody College, 1961
BOWIE, JULIUS R., Assistant Professor (Anesthesiology), 1989
B.S.; M.d., Medical College of Georgia, 1983
BOWMAN, R. LEWIS, Professor (Political Science), 1973
B.A., Ph.D., University of North Carolina, 1964
BOWYER, KEVIN W., Associate Professor (Computer Science Engineering), 1984
B.S.; Ph.D., Duke University, 1980
BOYCE, GREGORY, Visiting Assistant Professor (Internal Medicine), 1990
B.S.; M.D., University of South Florida , 1982
BOYCE, HENRY W., JR., Professor (Internal Medicine), 1975
B.S.; M.S.; M.D., Bowman Gray School of Medicine, 1955
BOYD, FELECIA R., Visiting Instructor (Psychiatry), 1986
B.S., University of South Carolina, 1966
BOYD, L. ADLAI, Academic Administrator (Child and Family Studies, FMHI), 1981
B.A.; M.Div.; M.Ed.; Ph.D., Temple University, 1978
BOYD, SARAH E., Associate Professor (Nursing), 1977
R.N.; B.S.; M.S.; M.P.S., Long Island University, 1977
BRADHAM, DOUGLAS D., Associate Professor (Public Health), 1985
A.B., M.P.H., M.A., D.P.H., University of North Carolina, Chapel Hill, 1981
BRADY, PATRICK G., Professor (Internal Medicine), 1978
A.B.; M.D., New Jersey College of Medicine, 1968
BRAMAN, ROBERT S., Professor (Chemistry), 1967
B.S.; Ph.D., Northwestern University, 1966
BRAMSON, ROBERT T., Associate Professor (Radiology), 1985
A.B.; M.D., Washington University School of Medicine, 1967
BRANDENBURG, NANCY A., Assistant Professor (Epidemiology, FMHI), 1986
B.A.; M.P.H., Ph.D., University of Texas, 1984
BRANDMEYER, GERARD A ., Associate Professor (Sociology), 1969
B.S., M.A., Ph.D., University of California, Los Angeles, 1962
BRANDMEYER, SUNNE, Lecturer (Economics), 1985
B.A.; M.A., University of South Florida, 1978
BRANDOLIN, ADRIANA, Visiting Research Associate (Engineering), 1989
Ph.D., Universidad na Cidnac Delsur, Argentina, 1987
BRANNICK, MICHAEL T., Assistant Professor (Psychology), 1986
B.A., M.A., Ph.D., Bowling Green State University, 1986

BREIT, ETTA B., Assistant Professor (Interdisciplinary Social Science), 1974
B.S.; M.A., Ph.D., University of Pennsylvania, 1984

BREIT, FRANK D., Associate Professor (Computers In Education), 1968
B.A., M.Ed., Ph.D., University of Texas, 1968

BRENNAN, MARY A., Visiting Assistant In (Engineering), 1990
B.A., University of South Florida, 1983

BREWER, PRISCILLA J., Assistant Professor (American Studies), 1987,
B.A.; M.A., M.A., Ph.D., Brown University, 1987

BRIDGES, VIRGINIA A., Associate Dean-Professor (Music Education), 1964
B.M.Ed., M.A., Ph.D., Ohio State University, 1965

BRIDGES, WINSTON T., JR., Associate Professor-Coordinator (Psychological and Social Foundations Education), St. Petersburg Campus, 1970
B.A., M.Ed., Ph.D., University of Florida, 1975

BRINKMANN, ROBERT, Assistant Professor (Geography), 1990
B.S.; M.S., Ph.D., University of Wisconson, Milwaukee, 1989

BRISCOE, DIANE B., Assistant Professor (Adult Vocational Education), 1985
B.M.Ed.; M.M.Ed., Ed.S., Ph.D., Florida State University, 1982

BROER, LAWRENCE R., Professor (English), 1965
B.S., M.A., Ph.D., Bowling Green State University, 1968

BROOKER, H. RALPH, Associate Professor (Physics), 1964
B.S., M.S., Ph.D., University of Florida, 1962

BROOKS, STUART M., Professor-Chairperson (Public Health), 1986
B.S., M.D., University of Cincinnati, 1962

BROSCH, GARY L., Director (Civil Engineering and Mechanics), 1988
B.S.; M.S., Florida State University, 1973

BROWN, CHARLES H., Associate Professor (Public Health), 1990
B.A.; M.A., Ph.D., University of Chicago, 1981

BROWN, H. KEITH, Associate Professor (Anatomy), 1974
B.S.; M.S.; Ph.D., Tulane University, 1974

BROWN, JANE H., Assistant In Research (Pediatrics), 1986
B.S.N., University of South Florida, 1979

BROWN, JOHN LOTT, *President Emeritus*-Professor (Engineering) (Physiology and Biophysics), 1977
B.S.E.E.; M.A.; Ph.D., Columbia University, 1952

BROWN, KAREN F., Assistant Professor (Mass Communications), 1985
B.A.; M.S.; Ph.D., University of Tennessee, 1982

BROWN, ROBERT B., Lecturer (Finance), St. Petersburg Campus, 1981
A.B.; M.B.A.; D.B.A., Indiana University, 1953

BROWNLEE, HARRISON J., Associate Professor - Program Director (Family Medicine), 1983
B.A.; M.D., SUNY Upstate Medical Center, 1976

BROZENA, STEPHEN J., Assistant Professor (Internal Medicine) 1988
B.A., M.D., Temple University, 1984

BRUCE, RITA G., Associate Dean-Associate Professor (Public Health), 1970
B.S., M.S., Ed.D., West Virginia University, 1965

BRUGGER, WALTER I., Visiting Counselor/Advisor (Engineering), 1987
B.S.; B.E.T., University of South Florida, 1986

BRULOTTE, GAETAN, Professor (Languages), 1987
B.A., B.A., M.A.; Ph.D., Universite de Paris VII, 1978

*BRUNHILD, GORDON, Professor (Economics), 1960
B.S., M.B.A., Ph.D., University of Southern California, 1957

BRYAN, JOANNE C., Assistant In Research (Engineering Research), 1974
B.A.; M.A., University of Georgia, 1968

BRYANT, ALMA J., Associate Professor-Associate Chairperson (English), 1972
B.S., M.A.; Ed.S., Ed.D., University of Florida, 1976

BRYANT, CAROL A., Assistant Professor (Public Health), 1989
B.A., M.A., M.S., Ph.D., University of Kentucky, 1984

BRYANT, MARGARET W., Assistant In Research (Anatomy), 1980
B.S.; M.S., University of Georgia, 1973

BRYANT, MARILYN J., Assistant Director (Career Resource Center), 1989
A.A., B.A.; M.A.; Ed.S., Central Missouri University, 1977

BUCKLE, KENNETH A., Associate Professor (Electrical Engineering), 1984
B.E.E.; M.S.; Ph.D., University of Wisconsin, 1984

BUENO, EDGAR M., Assistant Professor (Psychiatry), 1973
M.D., University of San Marcos, Lima, Peru, 1965

BUGNI, WILLIAM J., Visiting Assistant Professor (Internal Medicine), 1988
B.S.; M.D., University of Chicago, 1972

BUKANTZ, SAMUEL C., Professor (Internal Medicine), 1972
B.S.; M.D., New York University College of Medicine, 1934

BULLARD, DARSON A., Assistant Director (Medical/Health Administration, FMHI), 1990
B.S.; M.S., Rensselaer Polytechnic Institute, 1988

BULLOCK, DONNA S., Visiting Associate Professor (College Administration, Education), 1984
B.S.; M.A., Ph.D., New York University, 1977

BULLOCK, JOHN T., Professor (Contents Specialization, Education), 1966
A.B., M.ED., Ed.D., University of Florida, 1972

BULMASH, SAMUEL B., Associate Professor (Finance), 1985
B.A.; M.B.A., Ph.D., Northwestern University, 1981

BUNCH, WILTON H., Professor (Medicine), 1988
B.S.; M.D.; Ph.D., University of Minnesota, 1967

BURDICK, GLENN A., *Dean Emeritus*-Professor-Director (Engineering), 1965
B.S., M.S., Ph.D., Massachusetts Institute of Technology, 1961

BURKHALTER, S. BRIAN, Assistant Professor (Anthropology), 1984
B.A., M.A., Ph.D., Columbia University, 1982

BURLEY, W. WADE, Professor (Psychological and Social Foundations Education), 1966
B.A.; M.Ed., Ph.D., University of North Carolina, 1970

BURMEISTER, ROBERT A., Professor (Engineering), 1988
B.S.; M.S., Ph.D., Stanford University, 1965

BURNS, CANDACE M., Associate Professor (Nursing), 1977
B.S.N.; M.S., Ph.D., University of Michigan, 1980

BURR, DIANE W., Assistant In (Aging and Mental Health, FMHI), 1986
B.A.; M.A.; M.A., University of South Florida, 1984

BURTON, CARMEN S., Counselor/Advisor (Arts and Sciences) 1979
B.S.; M.A., Ph.D., University of South Florida, 1984

BUSOT, J. CARLOS, Professor (Chemical Engineering), 1970
B.S., M.S., Ph.D., University of Florida, 1970

BUSSMAN, JOHN F., Associate Professor (Accounting), 1977
B.S., M.Accy., D.B.A., Florida State University, 1973, C.P.A.

BYERS, PATRICIA H., Visiting Associate Professor (Nursing), 1985
B.S., M.S.; Ph.D., Case Western Reserve University, 1983

BYRNE, ROBERT H., JR., Professor (Marine Science), St. Petersburg Campus, 1977
B.S.; M.S.; M.A.; Ph.D., University of Rhode Island, 1974

CAFLISCH, JACOB C., III, Associate Professor (Languages), 1970
A.B., A.M., Ph.D., Indiana University, 1974

CAHILL, DAVID W., Associate Professor (Surgery), 1983
B.A., M.D., University of Virginia, 1976

CAIN, DELORES J., Visiting Instructor (FMHI), 1989
B.A.; M.S.W., Florida State University, 1985

CAIRL, RICHARD E., Visiting Assistant Professor (Suncoast Gerontology Center), 1981
B.S.; M.S., Ph.D., Florida State University, 1980

CALANDRA, DENIS, Professor (Theatre), 1978
B.A.; M.A., Ph.D., University of Nebraska, 1970

CALLAHAN, ANITA L., Assistant Professor (Engineering), 1989
B.S.; M.S., Ph.D., Stanford University, 1989

CALLAN, SABRA M., Instructor (Accounting), St. Petersburg Campus, 1979
B.A., M.Acc., University of South Florida, 1979, C.P.A., C.M.A.

CAMERON, DON F., Associate Professor (Anatomy), 1986
B.A.; M.S., Ph.D., Medical University of South Carolina, 1977

CAMERON, WM. BRUCE, Professor (Sociology), 1964
B.A., M.A., Ph.D., University of Wisconsin, 1952

CAMPBELL, JOHN SCOTT, Assistant Professor (Classics), 1989
A.B.; Ph.D., Brown University, 1979

CAMPBELL, SCOTT W., Assistant Professor (Chemical Engineering), 1986
B.E.; M.S., Ph.D., Northwestern University, 1986

CAMPOS, ALFONSO, Assistant Professor (Pediatrics), 1982
M.D., Greater National University of San Marcos, 1974

CANDELORA, ELIZABETH C., Assistant In Research (Public Health), 1987
B.S.N., Marquette University, 1971

CANE, ROY D., Professor (Anesthesiology), 1990
M.B.B.Ch., University of Witwatersrand School of Medicine, 1969

CANNONS, ANDREW C., Research Associate (Biochemistry), 1987
B.Tech., Ph.D., University of Bradford, 1982

CANO, CARLOS J., Associate Professor (Languages), 1970
B.A.; M.A., Ph.D., Indiana University, 1973

CAPSAS, CLEON W., Professor (Languages), 1970
B.A., M.A., Ph.D., University of New Mexico, 1964

CARBONELL, FRIEDA W., Professor (Nursing), 1973
B.S., Ed.M., Ed.D.; M.A., University of South Florida, 1980

CARD, GEORGE R., Academic Administrator (Engineering), 1970
B.S.; M.A., University of South Florida, 1971

CARDER, KENDALL L., Professor (Marine Science), St. Petersburg Campus, 1969
B.S., M.S., Ph.D., Oregon State University, 1970

CAREY, LARRY C., Chairperson-Professor (Surgery), 1990
B.S., M.D., The Ohio State University, 1959

CAREY, LOU M., Associate Professor (Educational Measurement and Research), 1980
B.S., M.A.; Ph.D., Florida State University, 1976

CARGILL, CAROL J., Professor (Languages), 1977
B.A.; M.A.; Ph.D., Georgetown University, 1974

CARLAN, STEPHEN J., Visiting Assistant Professor (Obstetrics and Gynecology), 1988
B.S.; M.D., Medical College of Georgia, 1974

CARLSON, REBEKAH L., Instructor (Communication Sciences and Disorders), 1968
B.S.; M.S., University of South Florida, 1970

CARNAHAN, ROBERT P., Professor (Civil Engineering and Mechanics), 1980
B.C.E.; M.S.S.E.; Ph.D., Clemson University, 1973, P.E.

CARNES, JOHN W., Visiting Assistant Professor (Family Medicine), 1985
B.A.; M.S.; Ph.D., Indiana State University, 1979

CARPENTER, WILLIAM C., Professor (Civil Engineering and Mechanics) 1976
B.S.C.E., Ph.D., North Carolina State University, 1966, P.E.

CARR, DAVID R., Associate Professor (History), St. Petersburg Campus, 1971
B.A.; M.A., Ph.D., University of Nebraska, 1971

CARRASCO, MAGDALENA E., Associate Professor (Humanities), New College of USF, 1977
B.A.; M.A., M.Phil., Yale University, 1975

CARROLL, DELOS L., JR., Associate Professor (Psychological and Social Foundations Education), 1969
B.S.; M.Ed., Ed.D., University of Florida, 1969

CARTLIDGE, JACK E., Associate Professor (Humanities), New College of USF, 1975
B.A.; M.A., University of Alabama, 1949

CARVER, JANE D., Instructor (Pediatrics), 1981
B.S.; M.S., Florida State University, 1982

CASTLE, RAYMOND N., Graduate Research Professor (Chemistry), 1981
B.A.; M.A., Ph.D., University of Colorado, 1944

CATALDO, JUDITH, Acting Director (Fine Arts), 1988
B.M.; M.M., University of South Florida, 1985

CAVANAGH, DENIS, Professor (Obstetrics and Gynecology), 1977
M.B., Ch.B., University of Glasgow, 1952

CEBULSKI, JAMES C., Counselor/Advisor (Undergraduate Studies), 1982
B.S.Ed., M.A., Kent State University, 1967

CHAE, SOO BONG, Professor (Natural Sciences), New College of USF, 1975
B.S.; M.A.; Ph.D., University of Rochester, 1970

CHAMBERS, WILLIAM V., Assistant Professor (Psychology) Ft. Myers Campus, 1989
B.A.; M.A.; Ph.D., University of Florida, 1984

CHAMUSCO, LARRY A., Visiting Assistant Professor (Chemistry), 1989
B.S.; Ph.D., University of Florida, 1989

CHANDLER, KEITH W., Associate Professor (Internal Medicine) 1981
B.A., M.D., Indiana University, 1975

CHANG, ROBERT S.F., Associate Professor (Physics), 1985
B.Sc., M.Sc., Ph.D., Cornell University, 1976

CHARLES, THOMAS, Research Associate (Business), 1989
B.A., M.B.A., Indiana University, 1979

CHAUMONT, JORGE L., Assistant Professor, (Anesthesiology), 1990
B.Sc.; M.D., Universidad Autonoma de Nuevo Leon, 1981

CHEN, LI-TSUN, Professor (Anatomy), 1980
B.Sc.; Ph.D., University of Alberta, 1968

CHEN, TSONG-MING, Professor (Electrical Engineering), 1972
B.S.; Ph.D., University of Minnesota, 1964

CHENEY, PAUL H., Chairperson-Professor (ISDS, Business Administration), 1990
B.S.B.; M.P.A.; Ph.D., University of Minnesota, 1977

CHERRY, R. ADRIAN, Associate Professor (Languages), 1961
B.A., M.A., Ph.D., University of Kentucky, 1960

CHESSA, FRANK, Assistant In (FMHI), 1989
B.A; M.A., University of South Florida, 1989

CHEZ, RONALD A., Professor (Obstetrics/Gynecology), 1989
A.B.; M.D., Cornell University Medical College, 1957

CHILDRESS, KAREN I., Visiting Assistant In (Adult and Vocational Education), 1986
B.A., University of South Florida, 1986

CHIOU, YUN LEEI, Professor (Electrical Engineering), 1984
B.S.E.E.; M.S.E.E.; M.S.; Ph.D.E.E., Purdue University, 1969

CHIRIKOS, THOMAS N., JR., Professor (Public Health), 1985
B.A.; M.A., Ph.D., Ohio State University, 1967

CHISNELL, ROBERT E., Associate Professor (English), 1967
B.A., M.A.; Ph.D., Auburn University, 1971

CHMEL, HERMAN, Professor (Internal Medicine), 1986
B.S.; M.D., Hahnemann Medical College, 1968

CHU, SHIRLEY S., Professor (Electrical Engineering), 1988
B.S.; M.S.; Ph.D., University of Pittsburg, 1961

CHU, TING LI, Professor (Electrical Engineering), 1988
B.S., M.S.; Washington University, St. Louis, 1952

CIMINO, CYNTHIA, Assistant Professor (Psychology), 1989
B.S., M.A., Ph.D., University of Florida, 1988

CINTRON, GUILLERMO B., Associate Professor (Internal Medicine), 1983
B.S.; M.D., Loyola School of Medicine, Chicago, 1967

CISSNA, KENNETH N., Associate Professor (Communication), 1979
B.A.; M.S.; Ph.D., University of Denver, 1975

CLAIRE, EARL J., Visiting Professor (Engineering), 1989
B.E.E., M.E.E., Ph.D., University of Florida, 1969

CLAPP, ROGER W., JR., Associate Professor (Physics), 1963
B.S.; M.S., Ph.D., University of Virginia, 1954

CLARK, BARBARA J., Research Associate (FMHI), 1989
B.S.; M.P.H., University of South Florida, 1989

CLARK, CHARLES, Visiting Assistant Professor (FMHI), 1988
B.A.; M.D., Johns Hopkins University, 1964

CLARK, HEWITT B., Professor (Child and Family Studies, FMHI), 1983
B.A.; M.A., Ph.D., University of Kansas, 1972

CLARK, JOHN R., Professor (English), 1973
B.A.; M.A.; Ph.D., University of Michigan, 1965

CLARK, ROBERT A., Professor (Cancer Education), 1986
A.B.; M.D., University of Cincinnati Medical College, 1973

CLARK, WILLIAM E., Professor (Mathematics), 1970
B.A.; Ph.D., Tulane University, 1964

CLARKE, BARBARA K., Associate Professor (Reading Education), Sarasota Campus, 1977
B.A.; M.A.; Ph.D., Florida State University, 1977

CLARKE, LAURENCE P., Associate Professor (Radiology), 1984
B.Sc., M.Sc.; Ph.D., National University of Ireland, 1978

CLAUSEN, MARGARET L., Visiting Assistant Professor, (Psychiatry), 1990
B.S.; M.S., Ph.D., Florida State University, 1989

CLINGMAN, JOY M., Associate Professor (Psychology), St. Petersburg Campus, 1970
B.A., M.S., Ph.D., Florida State University, 1971

COCHRANE, BRUCE J., Associate Professor (Biology), 1981
B.A.; M.A., Ph.D., Indiana University, 1979

COE, RICHARD D., Associate Professor (Economics), New College of USF, 1984
A.B.; M.A., J.D., Ph.D., University of Michigan, 1979

COFFEY, RONALD G., Associate Professor (Pharmacology), 1982
B.S.; Ph.D., Oregon State University, 1963
COFFIN, SUSAN B., Assistant in Research (Pediatrics) St. Petersburg, Campus, 1989
B.S., Northern Illinois University, 1968
COHEN, CYNTHIA F., Professor (Management), 1982
B.B.A., M.B.A.; Ph.D., Georgia State University, 1980
COHEN, MURRAY E., Associate Professor (Information Systems - Decision Sciences), 1983
B.A.; M.A.S., Ph.D., Georgia State University, 1976
COKER, JOHN W., Associate Dean-Associate Professor (Fine Arts Events), 1969
B.S., M.M., College Conservatory of Music, Cincinnati, 1956
COLE, NANCY B., Professor (Theatre), 1976
A.B.; M.F.A. in Acting, State University of Iowa, 1964
COLE, RICHARD D. Assistant Research Scholar/Scientist (Marine Sciences) St. Petersburg Campus, 1989
B.S., Florida Institute of Technology, 1983
COLE, ROGER W., Program Director-Professor (Languages), 1969
B.A., M.A.; Ph.D., Auburn University, 1968
COLLINS, CYNTHIA S., Counselor/Advisor (Academic Advising), St. Petersburg Campus, 1983
B.A., University of South Florida, 1982
COLLINS, PASCHAL J., Assistant Professor (English), 1969
B.S., M.A.; Ph.D., University of Florida, 1978
COLLINSON, DAVID L., Visiting Lecturer (Dean's Office, Business Administration), 1990
B.Sc., M.Sc., Ph.D., University of Manchester Institute of Science & Technology, 1988
COMPTON, JOHN S., Assistant Professor (Marine Sciences) St. Petersburg Campus, 1986
B.A.; Ph.D., Harvard University, 1986
CONN, CHRIS A., Visiting Instructor (Nursing), 1990
B.S., M.S., University of South Florida, 1990
CONN, JAMES W., Visiting Assistant Professor (Medicine), 1989
B.A.; M.D., New Jersey Medical School, 1977
CONTEH-MORGAN, EARL, Assistant Professor (Interdisciplinary Social Sciences), 1985
B.A.; M.A.I.A.; M.A., Ph.D., Northwestern University, 1984
CONTIS, CONSTANTINE J., Program Director (Public Health), 1988
B.S., M.A., University of Florida, 1968
COOK, WILLIAM E., Lecturer (Marketing), 1981
B.S., M.A., University of Florida, 1968
COOKE, JAMES E., Visiting Assistant Professor, (Anesthesiology), 1989
B.S., M.D., Northwestern University Medical School, 1982
COOKE, JOHN P., Associate Professor (Economics), 1968
B.S.; M.B.A.; Ph.D., University of Colorado, 1967
COOPER, CLARA B., Professor (Humanities), 1969
B.A., M.A., Ph.D., Florida State University, 1969
COOVERT, MICHAEL D., Assistant Professor (Psychology), 1985
B.A.; M.S.; Ph.D., Ohio State University, 1985
COREIL, M. JEANNINE, Associate Professor (Public Health), 1987
B.S.; M.A., Ph.D., University of Kentucky, 1972
CORNETT, PATRICIA A., Visiting Assistant Professor (Nursing), 1990
B.S.; M.S.; Ed.D., Rutgers University, 1987
COSTELLO, GERALD E., Academic Administrator (Surgery), 1987
B.S.; M.Ed.; Ed.D., Temple University, 1972
COTTLE, JAMES G., JR., Assistant Professor (Electrical Engineering), 1986
B.S.E.E., M.S.E.E., Ph.D., University of South Florida, 1986
COULTER, MARTHA L., Assistant Professor (Public Health), 1985
B.A.; M.S.W.; M.P.H.; D.P.H., University of North Carolina, 1984
COUNTS, TILDEN M., JR., Associate Professor (Mass Communications), 1980
B.A., M.A.; Ph.D., University of North Carolina, 1972
COWELL, BRUCE C., Professor (Biology), 1967
B.A., M.A., Ph.D., Cornell University, 1963
COX, CHARLES E., Associate Professor (Surgery), 1983
B.A., M.D., University of Utah School of Medicine, 1975
COX, ERNEST L., III, Professor (Visual Arts), 1962
B.A.; M.F.A., Cranbrook Academy of Art, 1961
COX, ROBERT G., Professor (Business Administration), 1975
B.S.; M.B.A.; Ph.D., University of Pennsylvania, 1956, C.P.A.
COX, SUSAN J., Instructor (Business), 1989
B.S., M.A.C.C., Florida State University, 1982, C.P.A., 1983
CRANE, DAVID A., Director-Professor (Urban Design Center, Academic Affairs), 1986
B.S., B.Arch.; M.C.P., Harvard University, 1952
CRANE, ROGER A., Professor (Mechnical Engineering), 1974
B.S.; M.S.; Ph.D., Auburn University, 1973
CRANSTON-GINGRAS, ANN M., Assistant Professor (Special Education), 1987
B.A.; M.S.; Ph.D., University of South Florida, 1987
CRESANTA, JAMES L., Associate Professor (Public Health), 1986
B.A.; M.S. Hyg., M.D., University of Pittsburgh, 1971
CRITTENDEN, JERRY, Associate Professor (Communication Sciences and, Disorders), 1971
B.S.; M.A., Ph.D., Michigan State University, 1969
CRUSE, C. WAYNE, Associate Professor (Surgery), 1979
B.S.; M.D., University of Louisville, 1972
CUERVO-HENDERSON, COLEEN A., Acting Assistant Director-Instructor (Exchange Center/Gerontology), 1989
B.A., M.A., Golden Gate University, 1980
CULLISON, LARRY R., Professor (Music Education), 1981
B.M.E.; M.M.; M.F.A., University of Iowa, 1973
CUMMING, EDWARD, Assistant Professor (Fine Arts), 1989
B.A.; M.M., M.M.A., Yale School of Music, 1985
CUMMINGS, YVONNE E., Visiting Instructor (Psychiatry), 1978
B.S.; M.D., Howard University College of Medicine, 1973
CUOMO, GLENN R., Associate Professor (Humanities), New College of USF, 1982
B.A.; M.A.; Ph.D., Ohio State University, 1982
CURRAN, JOHN S., Acting Associate Dean-Professor (Pediatrics), 1972
A.B.; M.D., University of Pennsylvania, 1966
CURREY, CECIL B., Professor (History), 1967
A.B., M.Sc., Ph.D., University of Kansas, 1964
CURTIS, PATRICIA R., Counselor/Advisor (Education), 1989
B.S.; M.A., University of South Florida, 1984
CURTIS, THOMAS D., Professor (Economics), 1974
B.S., M.A.; Ph.D., Indiana University, 1965
CUSHMAN, DAVID O., Associate Professor (Economics), 1987
B.A.; Ph.D., Vanderbilt University, 1980
CYBULSKI, JOHN, Visiting Coordinator (Education), 1988
B.E.S.; M.B.A., Gannon University, 1981
CZYZEWSKI, PAUL V., Associate Professor (Contents Specialization, Education), 1974
B.S., M.S., Indiana University, 1966
DAGON, EUGENE M., Associate Professor (Psychiatry), 1982
B.S.;M.D., Marquette University School of Medicine, 1966
D'AGOSTINO, ALFRED T., Assistant Professor (Chemistry), 1987
B.S.; M.S.; Ph.D., Utah State University, 1984
DALY, JOHN L., Assistant Professor (Public Administration), 1986
B.A., M.P.A., Indiana University, 1982
DAO, MY LIEN, Associate Professor (Biology), 1986
B.S.; Ph.D., University of Oklahoma, 1978
DARDEN, DONNA K., Visiting Lecturer, (Marketing), 1990
B.A.; M.A.; Ph.D., University of Georgia, 1963
DARLING, RICHARD W., Associate Professor (Mathematics), 1986
B.A.; M.Sc.; Ph.D., Warwick University, 1982
DAVE, RAJENDRAPR B., Visiting Assistant Professor (Political Science), 1989
M.A., M. Phil.; M.A., Ph.D., Syracuse University, 1988
DAVIS, DARRELL L., Professor (Physiology), 1971
B.S., M.A.; Ph.D., St. Louis University, 1956
DAVIS, JAMES M., Visiting Assistant Professor (Pediatrics), 1989
B.S., M.D., University of South Florida, 1986
DAVIS, JEFFERSON C., JR., Professor (Chemistry), 1965
B.S., M.S.; Ph.D., University of California, Berkeley, 1959
DAVIS, KRISTEN E., Counselor/Advisor (Counseling Center for Human Development), 1990
B.A.; M.A., Ph.D., Ohio State University, 1990
DAVIS, MACK, III, Coordinator (Academic Services), 1977
B.A., M.A., University of South Florida, 1974
DAVIS, MARY A., Visiting Assistant In (Secondary Education), 1989
B.A.; M.A.; University of South Florida, 1977
DAVIS, RICHARD A., JR., Graduate Research Professor (Geology), 1973
B.S.; M.A.; Ph.D., University of Illinois, 1964

DAVIS, RICHARD H., Instructor (Internal Medicine), 1987
B.A.; B.S., University of Florida, 1982
DAVIS, SANDRA L., Assistant Professor (Visual Arts), 1986
B.F.A., M.F.A., San Francisco Art Institute, 1978
DAWES, CLINTON J., Professor (Biology), 1964
B.S., M.A., Ph.D., University of California, Los Angeles, 1961
DAWSON, PETER, Professor (Pathology), 1989
B.A.; M.B., B. Chir., M.A.; D.C.P.; M.D., Cambridge University, England, 1960, Diplomate, 1968
DAY-GOOD, NOORBIBI, Professor (Pediatrics), St. Petersburg Campus, 1985
B.S., M.S., Ph.D., McGill University, 1967
DEANS, STANLEY R., Professor (Physics), 1967
B.S.; M.S.; Ph.D., Vanderbilt University, 1967
DEATS, SARA M., Professor - Program Director (English), 1970
B.A., M.A., Ph.D., University of California, Los Angeles, 1970
DEBORD, WARREN A., Associate Professor (Marketing), 1969
B.S., M.B.A., Ph.D., University of Illinois, 1969
DECLUE, TERRY J., Visiting Assistant Professor (USF Diabetes Center/Pediatrics), 1987
B.A., M.D., University of South Florida, 1982
DEDRICK, ROBERT F., Assistant Professor (Measurement & Research, Education), 1990
B.A.; M.A., Ph.d., University of Michigan, 1988
DEER, HARRIET H., Professor (English), St. Petersburg Campus, 1966
M.A., University of Minnesota, 1964
DEER, IRVING, Professor (English), 1966
B.S.; M.A., Ph.D., University of Minnesota, 1956
DEFANT, MARC J., Associate Professor (Geology), 1983
B.S., B.S., M.S.; Ph.D., Florida State University, 1985
DEMBO, RICHARD, Professor (Criminology), 1981
B.A.; M.A.; Ph.D., New York University, 1970
DEME, LASZLO, Professor (History), New College of USF, 1975
M.A., Ph.D., Columbia University, 1969
D'EMILIO, JAMES P., Assistant Professor (Humanities), 1988
B.A., Reed College, 1977
DENKER, MARTIN W., Associate Professor (Psychiatry), 1972
B.A., M.D., Johns Hopkins University, 1968
DENNIS, DAVID M. SR., Professor (Accounting), 1972
A.B.; M.B.A.; Ph.D., University of Missouri, 1972, C.P.A.
DEPERCZEL, MARIA Y. Visiting Assistant Professor (Child and Family Studies, FMHI), 1990
B.A., M.A., Southern Illinois University, 1985
DERTKE, MAX C., Dean-Associate Professor (Dean's Office, FMHI), 1967
B.A., Ph.D., University of Miami, Florida, 1968
DESALVO, JOSEPH S., Professor (Economics), 1983
B.A., M.A.; Ph.D., Northwestern University, 1968
DEVINE, JAMES F., Assistant Professor (Civil Engineering and Mechanics), 1965
B.S., M.S., University of Illinois, 1960
DIAMOND, FRANK B., JR., Visiting Associate Professor (Pediatrics), 1988
B.A.; M.D., Pennsylvania State University, Hersey, 1974
DICKERSON, DONNA L., Associate Professor-Chairperson (Mass Communications), 1977
B.J., M.A.; Ph.D., Southern Illinois University, 1977
DICKINSON, JAMES C., Professor (Psychological and Social Foundations Education), 1969
A.B., A.M., Ph.D., University of Minnesota, 1964
DICKMAN, J. FRED, Professor (Rehabilitation Counseling), 1970
B.A., S.T.B., M.Ed., Ed.D., University of Florida, 1967
DIEHL, SYLVIA F., Visiting Instructor (Education), 1988
M.S., ED.S., University of South Florida, 1988
DIETERLE, DWIGHT A., Associate In (Marine Science), 1984
B.S.; M.S., San Jose State University, 1979
DIETRICH, RICHARD F., Professor (English), 1968
A.B.; M.A.; Ph.D., Florida State University, 1965
DIETZ, JOHN R., Associate Professor (Physiology), 1982
B.S., M.D., University of Nebraska, 1979
DILKES, THOMAS P., Associate Professor (History), 1969
B.A., M.A., Ph.D., University of Iowa, 1964
DIMINO, ANDREA, Assistant Professor (Humanities), New College of USF, 1986
B.A.; M.Phil., Ph.D., Yale University, 1980
DINWOODIE, WILLIAM R., Associate Professor (Internal Medicine), 1978
A.B., M.D., Indiana University School of Medicine, 1972
DISS, NANCY M., Instructor (Communication Sciences & Disorders), 1990
B.S., M.A., Ball State University, 1980
DJEU, JULIE Y., Associate Professor (Medical Microbiology), 1984
B.A.; Ph.D., George Washington University, 1973
DJEU, NICHOLAS I., Professor (Physics), 1983
B.S.; Ph.D., Cornell University, 1969
DOANE, CHRISTOPHER P., Associate Professor (Music Education), 1982
B.M.E.; M.M.; Ph.D., Ohio State University, 1981
DOELLING, DONNA L., Instructor/Librarian (Health Services), 1990
B.A.; M.S.L.S., Louisiana State University, 1987
DOENECKE, JUSTUS, Professor (Social Sciences), New College of USF, 1975
A.B.; M.A., Ph.D., Princeton University, 1966
DOMINGUEZ, ADRIAN D., Assistant In Research (Florida Institute of Oceanography), St. Petersburg Campus, 1990
B.S., University of West Florida, 1981
DONNELLY, JOSEPH, Assistant In Research (Marine Science Program), 1983
B.S., University of West Florida, 1979
DONOVAN, JEFFREY C., Assistant Research Scholar/Scientist (Marine Science Program), St. Petersburg Campus, 1987
B.S., University of Florida, 1985
DOONE, PATRICK L., Visiting Assistant In (Exceptional Child Education), 1988
B.A., University of South Florida, 1987
D'ORONZIO. PAUL A., Assistant Professor (Social and Behavioral Sciences), 1989
B.A.; M.S., D.S.W., Yeshiva University, 1974
DOW, MICHAEL G., Associate Professor (Community Mental Health, FMHI), 1985
B.S.; M.S., Ph.D., Pennsylvania State University, 1983
DOWNS, BERNARD F., Associate Professor (Communication), 1970
B.A., B.F.A.; M.A., Northwestern University, 1970
DOWNS, JOHN B., Professor-Chairperson (Anesthesiology), 1988
B.S.; M.D., University of Florida, 1969
DOYLE, JAMES P., Academic Administrator (Crime & Delinquency, FMHI), 1981
B.S.; M.Div.; M.S., Cornell University, 1966
DOYLE, LARRY J., Professor (Marine Science), St. Petersburg Campus, 1972
B.A., M.A.; Ph.D., University of Southern California, 1973
DRAPELA, VICTOR J., Professor (Counselor Education), 1968
Ph.L.; M.A., Ph.D., University of North Dakota, 1968
DRASH, PHILIP W., Associate Professor (Children & Family Studies, FMHI), 1981
B.A.; M.A.; Ph.D., Texas Tech University, 1963
DRUCKER, MITCHELL D., Visiting Assistant Professor (Ophthalmology), 1988
B.A.; M.D., University of Florida, 1981
DUANE, KAREN, Assistant Professor (Orthopedics), 1990
B.S.; M.D., Indiana University School of Medicine, 1978
DUCHNOWSKI, ALBERT J., Visiting Associate Professor (Epidemiology and Policy Analysis, FMHI), 1985
B.S.; Ph.D., Vanderbilt University, 1969
DUFFUS, LEE Associate Professor (Marketing), Ft. Myers Campus, 1985
B.S., M.S.P.A., Ph.D., Purdue University, 1979
DUMMELDINGER, MARK, Visiting Instructor (Business Administration), 1989
B.S., M.S.., University of Florida, 1989
DUNGAN, CHRISTOPHER W., Professor (Accounting), Sarasota Campus, 1982
B.S., M.B.A.; Ph.D.; J.D., University of Louisville, 1976, C.P.A.
DUNHAM, EUGENE F., Visiting Assistant Professor (Finance), Ft. Myers Campus, 1990
B.B.A.; M.B.A.; Ph.D., Michigan State University, 1975
DUNIGAN, DAVID D., Assistant Professor (Natural Sciences), 1989
B.S.; Ph.D., University of Connecticut, 1985

DUNLAP, GLEN G., Visiting Associate Professor (FMHI), 1988
B.A., PhD., University of California, 1981

DUNLEAVY, LAWRENCE P., Assistant Professor (Electrical Engineering)
B.S.E.E.; M.S.E.E., Ph.D., University of Michigan 1988

DUNN, Marvin R., Associate Dean-Professor (Medicine), 1990
B.A.; M.D., University of Texas Southwestern Medical School, 1955

DUPREE, LARRY W., Associate In (Geropsychological Studies, FMHI), 1981
B.A., M.A.; M.S., Ph.D., Memphis State University, 1980

DUTTON, RICHARD E., Professor (Management), 1963
A.B.; M.B.A.; Ph.D., Louisiana State University, 1963

DWORNIK, JULIAN J., Associate Professor (Anatomy), 1970
B.A.; M.Sc., Ph.D., University of Manitoba, Canada, 1969

DYE, HOWARD S., Professor (Economics), 1973
A.B., M.A., Ph.D., Cornell University, 1949

DYKSTRA, E. DAVID, Professor (Humanities), New College of USF,1975
B.A.; M.A., Ph.D., University of Iowa, 1957

EAKER, ALAN B., JR., Professor-Director (Visual Arts), 1969
B.A., M.A., University of California, Berkeley, 1969

EARP, THOMAS E., Academic Administrator (Forensics Program), 1989
A.A.; B.A., M.A., University of South Florida, 1988

EASTERLIN, B. RAY, Academic Administrator (Career Resource Center), 1988
B.S.; M.Ed., University of South Carolina, 1980

ECHELBERGER, WAYNE F., Chairperson-Professor (Engineering), 1989
B.S.C.E.; M.S.E., M.P.H., Ph.D., University of Michigan, 1964

ECHEVARRIA, KATHERINE H. Instructor (Nursing), 1985
B.S.N., M.S., University of South Florida, 1984

EDELMAN,PLOTR, Visiting Scholar/Scientist (Engineering), 1990
M.S.; Ph.D., Institute of Electron Technology, 1986

EDIDIN, ARON Z., Associate Professor (Humanities) New College of USF, 1989
B.A.; Ph.D., Princeton University, 1981

EDWARDS, CHARLES, Associate Dean-Professor (Medicine), 1988
B.S., M.S., Ph.D., Johns Hopkins University, 1953

EDWARDS, MARGARET, Assistant In (Engineering), 1988
B.S., Indiana University of Pennsylvania, 1979

EDWARDS, SAMUEL, Assistant Professor (Biology), 1989
B.A., B.A.; M.S.; Ph.D., University of Maryland, 1984

EGGOLD, DIANA L., Assistant In Research (Obstetrics), 1989
B.S., Carrol College, 1988

EICHLER, DUANE C., Professor (Biochemistry), 1977
B.A.; Ph.D., University of California at Los Angeles, 1972

EILERS, FREDERICK I., Associate Professor-Assistant Chairperson (Biology), 1967
B.S., M.S., Ph.D., University of Michigan, 1968

EISON, JAMES A., Professor/Director, Teaching Enhancement Center (Academic Affairs), 1990
B.A.; Ph.D., University of Tennessee, Knoxville, 1979

ELFENBEIN, GERALD J., Professor (Internal Medicine), 1989
A.B.; M.D., Johns Hopkins University, 1970

EL-HADIDY, BAHAA, Associate Professor (Library and Information Science, Education), 1987
B.Sc.; M.L.S.; Ph.D., University of Pittsburgh, 1974

ELLIOTT, CATHERINE, Assistant Professor (Economics), 1989
A.A.; B.S.; M.A., Ph.D., University of Michigan, 1982

ELLIS, CAROLYN S., Associate Professor (Sociology), 1981
B.A.; M.A., Ph.D., State University of New York at Stonybrook, 1981

ELMEER, DIANE H., Lecturer (Visual Arts), 1977
B.S.; M.F.A., University of South Florida, 1976

EMENER, WILLIAM G., JR., Professor (Rehabilitation Counselor), 1980
B.A.; M.A.; Ph.D., University of Georgia, 1971

EMERY, PATRICIA R., Assistant In Research (Public Health), 1988
B.A., University of South Florida, 1987

EMMANUAL, PATRICIA J., Assistant Professor (Pediatrics), 1989
B.S.; M.D., University of Florida, 1986

ENDICOTT, JAMES N., Professor (Surgery), 1975
A.B.; M.D., Indiana University School of Medicine, 1967

ENGEL, CHARLES W., Professor (Computers In Education), 1966
B.S., M.S.; Ed.D., Wayne State University, 1966

ENGLEMAN, ROBERT W., Assistant Professor (Pediatrics), St. Petersburg Campus, 1986
B.S.; D.V.M.; Ph.D., Oklahoma State University, 1985

ENGLE, TERRY J., Associate Professor (Accounting), 1983
B.S., M.S.; Ph.D., University of Missouri, 1983

ENTREKIN, NINA M., Associate Professor (Nursing), 1973
B.S.N., M.N., Emory University School of Nursing, 1969

EPANCHIN, BETTY C., Assistant Professor (Special Education), 1988
B.A., M.Ed., Ed.D., Duke University, 1975

ESFORMES, MARIA, Associate Professor (Languages), 1982
B.A.; M.A.; Ph.D., University of Colorado, 1977

ESPINOZA, CARMEN G., Associate Professor (Pathology), 1978
M.D., San Marcos University, Lima, Peru, 1969

ESPINOZA, LUIS R., Professor (Internal Medicine), 1978
M.D., Cayetano Heredia, Lima, Peru, 1969

ESSIG, FREDERICK B., Associate Professor (Biology), Director (Botanical Gardens), 1975
A.B.; Ph.D., Cornell University, 1975

ESSIG, YAU PING HU, Assistant In Research (Pediatrics), 1977
B.S.; M.S., Cornell University, 1975

ESSRIG, IRVING M., Professor (Medicine), 1981
M.D., Tulane University Medical School, 1938

ESTRADA, JAIME, Assistant Professor (Pediatrics), 1983
B.S.; M.S.; M.D., University of Michoacan, Mexico, 1974

EVANS, DONNIE W., Associate Professor (Special Education), 1990
B.S., M.A.; Ed.D., University of North Carolina, 1985

EVANS, TIMOTHY D., Associate Professor (Counselor Education), 1990
B.A., B.S., M.S.; Ph.D., University of Georgia, 1984

FABRI, PETER J., Professor (Surgery), 1986
B.A.; M.D., Loyola University, 1973

FABRY, FRANCIS J., Professor (English), 1964
A.B., M.A., Ph.D., University of Texas, 1964

FACTOR, REGIS A., Professor (Political Science), St. Petersburg Campus, 1971
B.A.; M.A.; Ph.D., University of Notre Dame, 1974

FAGER, CHARLES J., Professor (Visual Arts), 1963
B.A.; M.F.A., University of Kansas, 1963

FANNING, KENT A., Professor (Marine Science), St. Petersburg Campus, 1973
B.S.; Ph.D., University of Rhode Island, 1973

FANOUS, BALSAM, Visiting Assistant Professor (Psychiatry), 1983
M.B.Bch., Cairo University, 1969

FARBER, M. STEVEN, Assistant Professor (Radiology), 1981
B.A., M.D., Brown University Medical School, 1976

FASCHING, DARRELL J., Professor (Religious Studies), 1982
B.A.; M.A., Ph.D., Syracuse University, 1978

FEENEY, JAMES W., Academic Administrator (Provost), New College of USF, 1984
B.A., Goddard College, 1964

FELDMAN, PHYLLIS S., University Psychiatrist (Medicine), Assistant Professor (Psychiatry), 1984
M.D., Medical College of Virginia, 1979

FELLOWS, JAMES A., Associate Professor (Accounting), Ft. Myers Campus, 1982
B.A.; B.S.; M.A.; M.S.; Ph.D., Louisiana State University, 1977, C.P.A.

FENSKE, NEIL A., Professor (Internal Medicine), 1977
B.A.; M.D., St. Louis University School of Medicine, 1973

FERGUSON, DONALD G., Professor (Counselor Education), 1970
B.S., M.A.; Ed.D., Western Reserve University, 1956

FERNANDEZ, CAROL, Instructor (Communication Sciences and Disorders), 1989
B.A.; M.A., University of South Florida, 1970

*FERNANDEZ, JACK E., Professor (Chemistry), 1960
B.S.Ch., M.S., Ph.D., University of Florida, 1954

FERNANDEZ, RAYMOND J., Visiting Program Director (Pediatrics), 1977
B.A.; M.D., Tulane University School of Medicine, 1968

FERNANDEZ, ROBERT C., Visiting Associate Professor (Psychiatry), 1977
M.D., University of Tennessee, 1969

FERRO, JOLENEA, Visiting Assistant in Research (Child & Family Studies; FMHI), 1990
B.A., M.A.; Ph.D., University of South Florida, 1990

FEYTEN, CARINE M., Assistant Professor (SCATT, Education), 1987
B.A.;M.A.; Ph.D., University of South Florida, 1988
FIELDS, KAREN K., Assistant Professor (Internal Medicine), 1989
B.A., M.D., Ohio State University, 1981
FIELLAND, CARL E., Visiting Instructor (Civil Engineering and Mechanics), 1987
B.S.C.E., M.S.C.E., University of Florida, 1965
FIGG, ROBERT M., III, Associate Professor (English), 1965
B.S., M.A., Ph.D., University of North Carolina, 1965
FIGUEROA, T. ERNESTO, Assistant Professor (Surgery), 1990
B.S., M.D., Tulane University Medical School, 1983
FINAN, MICHAEL A., Visiting Instructor (Obstetrics & Gynecology), 1990
B.A.; M.D., Louisiana State University Medical Center, 1986
FINELLI, PATRICK M., Assistant Professor (Theatre), 1976
B.A., M.A.; M.B.A., University of South Florida, 1982
FINKELSTEIN, MARCIA A., Associate Professor (Psychology), 1981
B.A.; M.A., M. Phil., Ph.D., Columbia University, 1981
FINSTER, JOSEPH L., Associate Professor (Internal Medicine), 1977
A.B.; M.D., Georgetown School of Medicine, 1964
FIORE, SILVIA R., Professor (English), 1969
B.Ed., M.A.; Ph.D., University of Pittsburgh, 1970,
FIORICA, JAMES V., Visiting Assistant Professor (Obstetrics and Gynecology), 1987
B.A.; M.D., Tufts College of Medicine, 1982
FIRESTONE, GREGORY E., Visiting Assistant Professor (Public Health), 1989
B.S.; M.A., Ph.D., University of South Florida, 1978
FITZGIBBON, JOHN T., Lecturer (Accounting), 1988
B.S.; M. Accty., University of South Florida, 1988
FITZPATRICK, DAVID F., Associate Professor (Pharmacology), 1972
B.S., M.A.; Ph.D., Vanderbilt University, 1969
FLATEBY, TERESA L., Coordinator (Evaluation and Testing), 1986
B.A.; M.Ed., Ph.D., University of South Florida, 1982
FLETCHER, DONALD C., Visiting Assistant Professor (Ophthalmology), 1990
B.M.S., M.D., University of Alberta, 1982
FLOW, JENETTE F., Visiting Research Associate (Nursing), 1987
B.A., M.A., University of South Florida, 1984
FLOWERS, H.D., II, Visiting Professor (Theatre), 1990
B.A,; M.A.; Ph.D. Southern Illinois University, 1974
FLYNN, ROBERT W., Professor (Physics), 1968
B.S.; S.M., Sc.D., Massachusetts Institute of Technology, 1968
FOLEY, JOCELYN W., Counselor/Advisor (Academic Advising), St. Petersburg Campus, 1983
B.A., University of South Florida, 1984
FOLLMAN, JOHN C., Professor (Psychological and Social Foundations Education), 1966
B.A.; M.A.; Ph.D., Indiana University, 1969
FORBES, LINDA C., Academic Administrator (Florida Forensics Program), 1990
B.S.; M.A., University of South Florida, 1990
FURCUCCI, DAVID, Assistant In (Florida Institution of Oceanography), 1990
B.S.; M.S., University of South Florida, 1985
FORD, EDWARD J., JR., Associate Professor (Economics), 1971
B.A.; M.A.; Ph.D., Boston College, 1971
FOSTER, SUSAN, Visiting Assistant In (Education), 1988
B.A., M.A., University of South Florida, 1987
FOULIS, PHILIP R., Assistant Professor (Cancer Education), 1986
B.S.; M.D., McMaster University School of Medicine, 1975
FOUNTAIN, JERRY D., Acting Coordinator-Instructor (Florida Institute of Oceanography), St. Petersburg Campus, 1986
B.Sc., Colorado School of Mines, 1971
FOUNTAIN, JUANITA C., Assistant Professor (Childhood Education), St. Petersburg Campus, 1989
B.S.; M.Ed., Ph.D., University of Florida, 1986
FOWLER, ELTON L., MAJ, Assistant Professor (Military Science)
B.A., Southwestern Oklahoma State University
FOWLER, ROBERT L., JR., Professor (Psychology), St. Petersburg Campus, 1969
B.A., M.A., Ph.D., University of Tennessee, 1963
FRALEY, JAMES A., Jr., MAJ, Assistant Professor (Military Science)
B.S.; M.B.A., Golden Gate University, 1975
FRANCIS, ROY G., Professor (Sociology), 1973
B.A.; M.A.; Ph.D., University of Wisconsin, 1950
FRANQUES, JOHN T., Assistant Professor (Civil Engineering and Mechanics), 1971
B.S., M.S., Ph.D., Louisiana State University, 19711 P.E.
FRAZE, HENRY S., Visiting Lecturer (Engineering), 1978
B.S.E.; M.S.E., Pennsylvania State University, 1965
FREEMAN, KITTY S., Visiting Instructor (Electrical Engineering), 1980
B.S.E., M.S.E., University of South Florida, 1987
FREEMAN, THOMAS B., Assistant Professor (Surgery), 1988
S.B.; M.D., Johns Hopkins University School of Medicine, 1981
FREITAG, CYNTHIA S., Visiting Assistant Professor (Medicine), 1989
B.S., M.S., Ph.D., North Carolina State University, 1981
FRENCHMAN, STUART M., Assistant Professor (Radiology), 1977
B.A.; M.D., Temple University School of Medicine, 1967
FRESHOUR, FRANK W., Associate Professor (Childhood Education), 1969
B.S.; M.Ed.; Ed.D., University of Florida, 1970
FREUNDLICH, AUGUST L., Professor (Fine Arts), 1982
B.A., M.A.; Ph.D., New York University, 1960
*FRIEDL, FRANK E., Professor (Biology), 1960
B.A., Ph.D., University of Minnesota, 1958
FRIEDMAN, HERMAN, Professor-Chairperson (Medical Microbiology), 1978
A.B., M.A.; Ph.D., Hahnemann Medical College, 1957
FRIEDMAN, JENNIFER, Assistant Professor (Sociology), 1988
B.A.; M.A.; Ph.D, Northwestern University, 1988
FRIEDMAN, ROBERT M., Professor-Chairperson (Epidemiology and Policy Analyst, FMHI), 1981
B.A.; M.S., Ph.D., Florida State University, 1970
FROELICH, RALPH O., Associate Professor (Music Arts), 1974
B.S., Juilliard School of Music, 1958
FRYE, BARBARA J., Assistant Professor (Childhood Education), St. Petersburg Campus, 1990
B.A.; Ph.D., University of Minnesota, 1990
FRYSINGER, RICHARD B., MAJ, Assistant Professor (Military Science)
B.S.; M.B.A., Webster University, 1984
FUDGE, WILLIAM G., JR., Associate Professor (Mass, Communications), 1972
B.A.; M.S.; Ph.D., Florida State University, 1975
FUKAURA, YUKA, Associate in Research (Pediatrics), 1990
B.D.S., D.D.S., Fukuoka Dental College, 1988
GAGAN, RICHARD J., Visiting Assistant Professor (Social Sciences), 1989
B.S., M.S.; Ph.D., Cornell University, 1969
GAGGI, SILVIO L., Professor (Humanities), 1972
B.A., M.A.; Ph.D., Ohio University, 1972
GAINES, JEANNIE, Assistant Professor (Management), St. Petersburg Campus, 1985
B.S.N., M.S.N.; Ph.D., University of Florida, 1984
GALLAGHER, EGLE V., Visiting Instructor (Adult and Vocational, Education), 1986
B.S., M.Ed., University of Tampa, 1977
GALLOPS, JANICE A., Visiting Assistant In (Education Leadership), 1986
GALPERIN, BORIS, Associate Professor (Marine Science), 1989
M.S.; Ph.D., Technion, Israel, 1982
GANGULY, ARUNABHA, Associate Professor (Internal Medicine), 1981
I.S.; M.B.B.S., Medical College, Calcutta, India, 1961
GANGULY, RAMA, Professor (Internal Medicine), 1981
B.S., M.S., Ph.D., Calcutta University, 1964
GARCIA, JUANITA L., Associate Professor (Gerontology), 1968
B.A.; M.A.; Ed.D., Nova University, 1975
GARCIA, MARIO R., Professor (Mass Communications), 1982
B.A.; M.A., D.A., University of Miami, 1976
GARCIA, SANDRA A., Professor (Psychology), 1974
B.A.; M.A.; Ph.D., University of Southern California, 1971
GARCIA-RUBIO, LUIS H., Professor (Chemical Engineering), 1983
M.E., Ph.D., McMaster University, 1980
GARDNER, DANIEL L., Assistant Professor (Adult & Vocational Education) 1990
B.A., M.Ed.; Ed.D., Florida Atlantic University, 1979

GARIN, EDUARDO H., Professor (Pediatrics), 1989
M.D., University of Chile, 1970
GARKO, MICHAEL G., Assistant Professor (Communication), 1981
B.A., B.A.; M.A., University of South Florida, 1980
GARRETT, SAMUEL J., Professor (Electrical Engineering), 1967
B.E.E.; M.S.E.E., Sc.D., University of Pittsburgh, 1963
*GARRETT, WILLIAM, Professor (English), St. Petersburg Campus, 1960
B.S., M.A., Ph.D., University of Florida, 1958
GARTH, REBA A., Counselor/Advisor (Undergraduate Studies) 1990
B.S. MA.Ed., Western Carolina University, 1983
GAZVODA, MARJORIE W., Visiting Assistant Professor (Adult and Vocational Education), 1988
B.Ed.; M.A.; Ph.D., American University, 1981
GEAREN, JANICE M., Visiting Assistant In (Education), 1989
GECK, PETER, Visiting Assistant Professor (Medical Microbiology & Immunology) 1990
M.D., Semmelweis Medical University, 1975
GEIGER, O. GLENN, Professor (Psychological and Social Foundations Education), 1969
B.A.; Ph.D., University of South Carolina, 1968
GELINAS, ROBERT W., Professor (Visual Arts), 1963
B.F.A., M.F.A., University of Alabama, 1958
GENGOZIAN, NAZARETH, Professor (Pediatrics), St. Petersburg Campus, 1985
B.S., M.A., Ph.D., University of Wisconsin, 1955
GEORGE, DEBORAH L., Assistant In Research (Pediatrics), 1983
GERDES, A. MARTIN, Associate Professor (Anatomy), 1982
B.S.; Ph.D., University of Texas Medical Branch, Galveston, 1978
GERMAIN, BERNARD F., Professor (Internal Medicine), 1976
B.A.; M.D., Medical College of Georgia, 1966
GESTEN, ELLIS L., Professor (Psychology), 1980
B.A.; M.A., Ph.D., University of Rochester, 1974
GHAZI, F.H., Physician (FMHI), 1988
M.D., University of Marseille, 1966
GIBBONS, MICHAEL T., Assistant Professor (Political Science), 1984
B.A.; Ph.D., University of Massachusetts, 1983
GIBBS, WILLIAM J., Assistant in Research (Florida Institute of Oceanography) 1990
B.A.; M.A., University of South Florida, 1972
GIBLIN, CHRISTIAN H., Visiting Associate Professor, Epidemiology & Policy Analysis (FMHI), 1990
B.A.; M.S., Ph.D., Florida State University, 1978
GIERON-KORTHALS, MARIA A., Program Director (Center for Children with Learning Disabilities, Education), 1981
M.D., Medical School, Warsaw, Poland, 1971
GIFT, MICHAEL J., Associate Professor (Accounting), 1988
B.S., M.B.A.; Ph.D, University of Florida, 1983
GILBERT, RICHARD, Associate Professor (Chemical Engineering), 1978
B.A.; M.S., John Carroll University, 1971
GILCHRIST, SANDRA L., Associate Professor (Natural Sciences), New College of USF, 1983
B.S.; M.S.; Ph.D., Florida State University, 1982
GILKEY, GLENN A., Counselor/Advisor (Undergraduate Studies), 1986
B.S.; M.S., Southern Illinois University, 1986
GILL, PATRICIA L., Visiting Assistant Professor (Lakeland Center, Academic Programs), 1988
B.S.; M.A.; Ed.D., Nova University, 1976
GILREATH, KENNETH R.,Visiting Instructor (FMHI), 1988
B.S., M.A.,University of Nebraska, 1984
GIORDANO, JEFFREY A., Associate Professor (Social Work), 1984
B.S., M.S.W.; Ph.D., Georgia State University, 1983
GIVENS, PAUL E., Professor-Chairperson (Industrial and Management Systems Engineering), 1987
B.S.; M.B.A.; Ph.D., University of Texas at Arlington, 1976
GLASS, HARVEY, Professor (Computer Science and Engineering), 1969
B.S., M.S., D.Sc., Washington University, 1965
GLASS, LEWIS F., Visiting Assistant Professor (Internal Medicine), 1990
B.S.; M.D., Louisiana State University, 1985
GLASSER, DAVID E., Assistant Director-Professor (Graduate Architecture Program), 1988
B.Arch.; M.S. Arch., University of Pennsylvania, 1988
GLASSER, STEPHEN P., Professor (Internal Medicine), 1976
M.D., University of Miami Medical School, Florida, 1964
GLOVER, KOFI R. A., Associate Professor (Interdisciplinary Social Sciences), 1972
B.A.; M.A., Ph.D., Indiana University, 1975
GOFORTH, FRANCES, Associate Professor (Childhood Education), 1967
B.S., M.Ed.; Ed.D., Indiana University, 1966
GOLDGOF, DMITRY, Assistant Professor (Engineering), 1989
B.S.; M.S.; Ph.D., University of Illinois, 1989
GOLDMAN, ALLAN L., Professor (Internal Medicine), 1974
B.A., B.S., M.D., University of Minnesota, 1968
GOLDMAN, MARK S. Professor-Program Director (Psychology), 1985
B.S.; M.S., Ph.D., Rutgers University, 1972
GOLDSMITH, DEBRA A., Visiting Instructor (Psychology), 1990
B.A., M.A., University of South Florida, 1988
GOMES, JOSEPH L., Associate In Research (Computer Science and Engineering), 1987
B.E., Mysore University, India, 1981
GOMES, LIGIA B., Instructor (Anesthesiology), 1989
M.D., University of Lisbon, 1976
GOMEZ-SANCHEZ, CELSO E., Professor (Internal Medicine), 1980
M.D., University of San Marcos, Lima, Peru, 1968
GONDECK, ALLAN R., Associate Professor (Electrical Engineering), 1982
B.S.E.E., M.S.E.E.; Ph.D., University of Florida, 1973
GONSALVES, MARIE K., Counselor/Advisor (Fort Myers), 1986
B.S., M.P.H., St. Louis University, 1980
GONZALEZ, JOE V., Academic Administrator (Health Services, FMHI), 1981
B.S., M.D., University of Florida, 1961
GOOD, ROBERT A., Professor-Chairperson, (Pediatrics), St. Petersburg Campus, 1985
B.A., M.D., Ph.D., University of Minnesota, 1947
GOODING, DOLORES K., Instructor - Director (Engineering Technology Program), St. Petersburg Campus, 1975
B.S.E., M.S.E., University of South Florida, 1975
GOODMAN, ADOLPH W., Distinguished Service Professor (Mathematics), 1964
B.Sc., M.A., Ph.D., Columbia University, 1947
GOOLSBY, JERRY R., Assistant Professor (Marketing) 1990
B.A., M.B.A., Ph.D.; Texas Tech University, 1988
GORDON, CHARLES A., Coordinator (Student Personnel, Education), 1968
B.A.; M.S.; Ed.D., Nova University, 1977
GORDON, DAVID, Visiting Instructor (Economics), 1989
B.A., M.A., University of South Florida, 1988
GORDON, DOROTHY P., Visiting Instructor (Childhood Education), 1989
B.A., M.A., University of South Florida, 1974
GORDON, HORACE C., Lecturer (Bi-County Center For Engineering), Sarasota Campus, 1973
B.E.E., M.S.E., University of South Florida, 1970
GORZKA, PATRICIA A., Visiting Assistant Professor (Nursing), 1988
B.S.N.; M.S., State University of New York at Buffalo, 1973
GOULD, JAMES A., Professor (Philosophy), 1964
B.S., M.A., Ph.D., University of Michigan, 1953
GRAHAM, LLOYD B., Assistant in Research (Medicine), 1989
B.A., University of South Florida, 1974
GRANGE, ROGER T., JR., Professor - Chairperson (Anthropology), 1964
Ph.B., M.A., Ph.D., University of Arizona, 1962
GRAUBERT, DANIEL, Visiting Instructor (Medicine), 1989
B.S.; M.D., New York University, 1988
GRAVEN, STANLEY N., Professor - Chairperson (Public Health), 1984
B.S.; M.D., University of Iowa, 1956
GREABELL, LEON C., JR., Professor (Childhood Education), 1970
B.S., M.S., Ed.D., Syracuse University, 1969
GREASER, AARON W., Assistant in (Education), 1990
B.S., Fairmont State College, 1983
GREEK, CECIL E., Assistant Professor (Criminology), St. Petersburg Campus, 1989
B.A.; M.A., Ph.D., New School, New York, 1983

GREEN, CAROLE A., Associate Professor (Economics), 1982
B.A., M.A., Ph.D., University of Illinois, 1982
GREENBAUM, PAUL E., Visiting Assistant Professor (Epidemiology and Policy Analysis, FMHI), 1987
B.A.; M.S.; Ph.D., University of Kansas, 1977
GREENBAUM, SUSAN D., Associate Professor (Anthropology), 1981
B.A., M.A., Ph.D., University of Kansas, 1980
GREENBERG, HARVEY M., Associate Professor (Cancer Education), 1986
S.B.; M.D., University of Pittsburgh, 1972
GREENFIELD, GEORGE D., Professor (Medicine), 1989
A.B.; M.D., State University of Utrecht, 1956
GREENMAN, NANCY P., Assistant Professor (Education), 1989
B.A.; M.A., Ph.D., University of New Mexico, 1987
GREGORY, S. JOAN, Assistant Dean-Associate Professor (Nursing), 1977
B.S., M.S.; Ph.D., University of Florida, 1977
GREGORY, VICKI L., Assistant Professor (Library Media and Information), 1988
A.B., M.A., M.L.S.; Ph.D., Rutgers University, 1987
GRIFFIS, VICKI, B., Visiting Instructor (Business), 1989
B.A., M.B.A., University of South Florida, 1989
GRIFFITH, JOHN E., Professor (Civil Engineering and Mechanics), 1964
B.S., M.S., Ph.D., Pennsylvania State University, 1955 P.E.
GRIFFITH, PATRICK, Assistant in Research (Civil Engineering), 1990
B.S.; M.S., Villanova University, 1981
GRIFFITH, PRISCILLA L., Assistant Professor (Childhood Education), 1988
B.S., M.Ed; Ph.D., University of Texas At Austin, 1986
GRIGG, VERNON H., Lecturer (Economics), Sarasota Campus, 1981
B.Com., B.A., M.A.; Ph.D., Massachusetts Institute of Technology, 1954
GRIGGS, SARA, Research Assistant In (Pediatrics), 1978
B.S., Medical College of Georgia, 1969
GRIMM, RICHARD E., Program Director (Public Health), 1988
B.A.; M.S., Ph.D., Florida State University, 1969
GRINDEY, ROBERT J., Associate Professor (Elective Physical Education, Education), 1964
B.A.; M.S., University of New Mexico, 1961
GRISHAM, JACK R., Visiting Instructor (Adult and Vocational Education), 1987
B.S.; M.A., University of South Florida, 1969
GRODEN, LEWIS R., Assistant Professor (Ophtalmology), 1984
B.A.; M.D., State University of New York at Buffalo, 1977
GROSSMAN, STEVEN H., Associate Professor (Chemistry), 1981
B.A.; Ph.D., Purdue University, 1972
GROTHENDORST, GARY R., Visiting Associate Professor (Biology), 1987
B.A., Ph.D., University of South Florida, 1979
GROTHMANN, WILHELM H., Associate Professor (Languages), 1966
B.A.; M.A., Ph.D., University of Kansas, 1968
GROVE, NANCY P., Assistant In (Pediatrics), 1980
B.A.; B.S.; M.A., University of South Florida, 1982
GRUMAN, DANA, Visiting Assistant in (Adult & Vocational Education), 1990
B.A., George Washington University, 1987
GUDDEMI, MARCIA P., Assistant Professor (Childhood Education), 1989
B.S., M.A.; Ph.D., University of Texas, 1985
GUETZLOE, ELEANOR C., Professor (Exceptional Child Education), St. Petersburg Campus, 1968
B.S., M.A.; Ed.D., University of Florida, 1975
GUILFORD, ARTHUR M., Chairperson-Professor (Communication Sciences and Disorders), 1975
B.A.; M.A.; Ph.D., University of Michigan, 1970
GULITZ, ELIZABETH, Associate Professor (Nursing), 1983
B.S.N.; M.S.N.; Ph.D., Illinois State University, 1983
GUNTER, BILLY G., Associate Professor (Sociology), 1968
A.B., Ph.D., University of Tennessee, 1964
GUST, GIESELHER R., Professor (Marine Science), St. Petersburg Campus, 1979
M.S.; Ph.D., Christian-Albrecht Universitat, 1975
GUTIERREZ-MAYKA, MARCELA, Assistant In Research (Suncoast Gerontology Center), 1988
B.S.; M.A., University of South Florida, 1983
HACKNEY, JOHN F., Associate Professor (Pharmacology), 1974
B.A.; Ph.D., Stanford University, 1972
HADDEN, ELBA M., Assistant Professor (Pharmacology and Therapeutics), 1982
B.S., M.S., Ph.D., Yale University 1967
HADDEN, JOHN W., Professor (Internal Medicine), 1982
B.A.; M.D., Columbia College of Physicians and Surgeons, 1965
HAILSTONES, THOMAS J., Visiting Lecturer (Economics), 1988
B.S. ;B.A.; M.A.; Ph.D., St. Louis University, 1951
HALABY, SAMIA A., Visiting Associate Professor, (Visual Arts), 1990
B.S.; M.A.; M.F.A., Indiana University, 1963
HALDER, NARAYAN C. Professor (Physics), 1972
B.S.; M.S.; Ph.D., Indian Institute of Technology, 1963, F.A.P.S.
HALL, BRUCE W., Professor (Measurement and Research Education), 1969
B.S., M.S., Ed.D., Florida State University, 1969
HALL, LAWRENCE O., Assistant Professor (Computer Science and Engineering), 1986
B.S.; M.S., Ph.D., Florida State University, 1986
HALL, NICHOLAS, Visiting Associate Professor (Psychiatry and Behavioral Medicine), 1988
B.A., Ph.D., University of Florida, 1976
HALL, ROBERT E., Associate Professor (English), St. Petersburg Campus, 1970
B.A., M.A., John Carroll University, 1958
HALL, W. DIANNE, Associate Professor (Professional Physical Education, Education), 1976
B.S.; M.A., Ph.D., Ohio State University, 1976
HALLENBECK, CAROLYN, Visiting Assistant in Child & Family Studies (FMHI), 1986
B.A., Hartwick College, 1965
HALPERT, ROBERT D., Professor (Radiology), 1990
B.S., M.D., Memorial University of St. John's, Newfoundland, 1974
HALSEY, ALAN B., Visiting Assistant Professor (Pediatrics), 1989
B.S.; M.D., University of South Florida, 1981
HALSTED, JAMES B., Associate Professor (Criminology), 1986
B.A., J.D.; Ph.D., Florida State University, 1981
HAMADA, NOBUYUKI, Associate in Research (Pediatrics), St. Petersburg, 1989
B. AGR.; M. AGR., Kyushu University, 1977
HAMMAD, YEHIA Y., Professor (Public Health), 1989
B.S., D.P.H., M.S., D.Sc., University of Pittsburgh, 1974
HAMMOCK, STEVEN E., Capt., Assistant Professor (Aerospace Studies), 1988
B.S.; M.B.A., Southern Illinois University, 1986
HAMMOND, MICHAEL D., Visiting Associate Professor (Internal Medicine), 1986
M.D., University of Calgary, 1976
HAMPTON, WARREN R., Associate Professor (Languages), 1969
B.A., M.A., Ph.D., Tulane University, 1968
HANCOCK, JIM, Chairperson-Professor (Theatre, Fine Arts), 1989
B.A., M.A.; Ph.D., University of Minnesota, 1971
HANCOCK, TINA U., Associate Professor (Social Work), 1982
B.A.; M.S.W.; D.S.W., University of Alabama, 1981
HANLEY, PATRICIA E., Associate Professor (Childhood Education), 1981
B.A.; M.Ed.; Ph.D., University of Florida, 1976
HANNI, EILA A., Associate Professor (Economics), 1970
B.A.; M.A., Ph.D., Yale University, 1970
HANSEN, ROY A., Associate Professor (Sociology), 1969
B.A., M.A., Ph.D., University of California, Los Angeles, 1967
HARAGUCHI, SOICHI, Associate in Research (Pediatrics), St. Petersburg, 1989
Ph.D., Hamamatsue University, Japan, 1988
*HARDY, MILES W., Professor (Psychology), 1960
B.S.; M.S., Ph.D., Florida State University, 1960
HARGIS, EDYTH N., Lecturer (Management), 1980
B.A., M.S., University of South Florida, 1980
HARMON, MARYHELEN C., Associate Professor (English), 1964
A.B., M.A.T.; Ph.D., Florida State University, 198l
HARRINGTON, THOMAS C., Assistant Professor (Information Systems, Decision Sciences), Fort Myers Campus, 1987
B.S.; M.B.; Ph.D., University of North Carolina, 1980

HARRIS, DEBORAH M., Assistant Professor (Education), 1989
B.A.; M.Ed., Ph.D., University of North Carolina, 1985
HARRIS, LEBRONE C., Associate Professor (Accounting), 1970
B.S., M.Acc., D.B.A., Florida State University, 1970, C.P.A.
HARRIS, WILLARD S., Professor - Associate Chairperson (Internal Medicine), 1980
B.A.; M.D., New York University, Bellevue College of Medicine, 1957
HARRISON, ELIZABETH A., Visiting Assistant In (Education), 1989
B.A.; M.A., University of South Florida, 1976
HART, MELINDA B., Instructor (Surgery), 1990
B.A.; M.D., University of South Florida, 1985
HARTFIELD, JAMES E., Associate Vice President-Associate Professor (Health Sciences), 1988
B.S.; M.D., Baylor University, 1961
HARTSFIELD, JAMES K., JR., Visiting Assistant Professor (Pediatrics), 1986
B.S., D.M.D.; M.S.; M.M.Sc., Harvard University, 1986
HARWOOD, BENEDICT, T., Visiting Associate Professor (FMHI), 1989
B.S.; M.A.; Ph.D.; J.D., State University of New York, 1984
HASEGAWA, TAKASHI, Visiting Instructor (Medicine), 1989
B.S.; M.Sc., D.V.M., University of Tokyo, 1988
HASSOLD, CRIS, Associate Professor (Humanities), New College of USF, 1975
B.A.; M.A.; Ph.D., Florida State University, 1972
HATCH, DOUGLAS D., Instructor-Coordinator (Student Personnel, Education), 1984
B.A., M.A., University of South Florida, 1986
HATCHER, JOHN S., Professor (English), 1968
B.A., M.A., Ph.D., University of Georgia, 1968
HAUSER, ROBERT A., Visiting Assistant Professor (Medicine), 1989
B.A.; M.D., Temple University, 1982
HAWKINS, ANNIE L., Associate Professor (Music Arts), 1969
B.A., M.A., University of South Florida, 1970
HAWKINS, HERBERT H., Lecturer (Counseling Center for Human Development, Student Affairs), 1971
B.S., M.A., Ed.D., George Washington University, 1964
HAYDEN, WILLIAM P., Associate Professor (Music), 1989
B.M., M.M., The Juilliard School of Music, 1976
HEAD, JAMES D., Visiting Assistant Professor (Mass Communications), 1990
B.S., University of Kansas, 1949
HEAL, ALBERT V., Associate Professor (Cancer Education), 1987
B.S., M.S.; M.S., Ph.D., University of Michigan, 1971
HECHICHE, ABDELWAHAB, Associate Professor (Interdisciplinary Social Science), 1970
M.A., Docteur en Etudes Orientales, Sorbonne, 1966
HECHICHE, ANAIK J., Assistant Professor (Languages), 1980
M.A.; Ph.D., University of Florida, 1980
HECK, JAMES B., Professor (Broadcast Services, Public Affairs), 1978
B.S., M.A., Ph.D., Ohio State University, 1967
HEESCHEN, RICHARD E., Professor (Elective Physical Education), 1962
B.S.; M.S., Ph.D., Florida State University, 1974
HEIDE, KATHLEEN M., Associate Professor (Criminology), 1981
A.B.; M.A., Ph.D., State University of New York, Albany, 1981
HEIM, WILLIAM J., Associate Professor (Arts and Sciences), 1970
A.B.; M.A., Ph.D., Indiana University, 1974
HEINEMAN, DENISE, Assistant Professor (Nursing), 1989
B.S.; M.Ed.; Dr. P.H., Yale University, 1982
HELAL, AMIRA A., Assistant Professor (Pediatrics), 1989
M.B., Ch.B.; M.Sc.; M.R.C.P. (M.D.)., London University, 1983
HELLER, JACK J., Professor-Chairperson (Music), 1985
M.Mus.; Ph.D., University of Iowa, 1962
HELLER, RICHARD, Visiting Assistant Professor, (Surgery), 1989
B.S.; M.S.; Ph.D., University of South Florida, 1989
HELLERMANN, GARY R., Visiting Assistant in Research (Biology), 1988
B.S., University of Florida, 1969
HELPS, ROBERT E. Professor (Music), 1980
HELTON, SONIA D., Professor (Childhood Education), St. Petersburg Campus, 1971
B.A., M.A., Ph.D., University of Minnesota, 1976
HENCKELL, KARSTEN, Assistant Professor (Mathematics), New College of USF, 1986
B.A.; M.A., Ph.D., University of California at Berkeley, 1977
HENDERSON, J. NEIL, Assistant Professor-Coordinator (Suncoast Gerontology Center), 1981
B.A.; M.S.; Ph.D., University of Florida, 1979
HENDERSON, PATRICIA A., Assistant in Research (Engineering), 1989
B.A., University of South Florida, 1979
HENDERSON, STEPHEN J., Associate In Research (Engineering), 1978
B.A., University of Florida, 1976
HENDRY, CAROLE F., Lecturer (Biology), 1967
B.A., M.A., University of South Florida, 1968
HENLEY, ELTON F., Professor (English), 1963
B.A., M.A., Ph.D., Florida State University, 1962
HENLEY, WORTH B., Visiting Associate In (Engineering), 1989
B.S., Clemson University, 1981
HENNESSY, MARY S., Visiting Lecturer (GraphicStudio), 1986
B.A., B.A., M.F.A., University of South Florida, 1982
HENNING, RUDOLF E., Professor (Electrical Engineering), 1971
B.S.E.E., M.S.E.E., Sc.D., Columbia University, 1954, P.E.
HENSEL, JAMES S., Associate Professor (Marketing), St. Petersburg Campus, 1976
B.A.; M.B.A.; Ph.D., Ohio State University, 1970
HERANDER, MARK G., Associate Professor (Economics), 1979
A.B.; Ph.D., University of North Carolina, 1980
*HERMAN, WALTER J., Professor (Economics), 1960
B.S., M.B.A., Ph.D., University of Florida, 1965
HEROLD, ARTHUR H., Assistant Professor (Family Medicine), 1987
B.A.; M.D., University of Florida, 1980
HEROLD, NINA N., Assistant In (Pediatrics), 1985
B.H.S., P.A., University of South Florida, 1976
HESS, JEFFREY B., Visiting Associate Professor (Ophthalmology), 1979
B.A.; M.D., Baylor College of Medicine, 1971
HEWITT, GWEN E., Counselor/Advisor (Undergraduate Studies), 1987
B.S., M.Ed., Florida A&M University, 1968
HEWITT, MARGARET A., Visiting Instructor (Childhood Education), 1981
B.A.; M.A.E.; Ed.S., University of South Florida, 1984
HEWITT, NANCY A., Associate Professor (History), 1981
B.A.; Ph.D., University of Pennsylvania, 1981
HEWITT, REGINA L., Assistant Professor (English), 1987
B.A.; M.A., M.Phil., Ph.D., Columbia University, 1987
HICKEY-WEBER, EILEEN D., Associate Research Scholar/Scientist (Biology), 1977
B.S.; M.S.; Ph.D., University of Berne, Switzerland, 1970
HICKMAN, HUGH V., Assistant Professor (Engineering), 1989
B.S.E.E., M.S.E.E., University of South Florida, 1986
HICKS, DALE A., Academic Administrator (Counseling Center for Human Development, Student Affairs), 1977
B.S.; M.A., Ph.D., Bowling Green State University, 1977
HICKS, ROBERT A., Visiting Assistant Professor (Adult and Vocational Education), 1985
B.S.; M.A., Eastern Michigan University, 1972
HIKAWA, HIROOMI, Visiting Research Associate (Engineering), 1989
B.S., M.E., Ph.D., Keio University, 1989
HILBELINK, DON R., Associate Professor (Anatomy), 1980
B.S.; M.D., The Medical College of Wisconsin, 1977
HILL, RAYMOND, Associate Professor (Adult and Vocational Education), 1971
B.S.; M.A., Ed.D., University of Alabama, 1975
HILLIARD, DANIELLE, V., Visiting Instructor (Psychology), St. Petersburg Campus, 1990
B.A., M.A., University of South Florida, 1985
HILLS, HOLLY A., Assistant Professor (FMHI), 1990
B.S.; M.S., Ph.D., University of Florida, 1989
HIMENO, YASUO, Research Scholar/Scientist (Sarasota Campus), 1988
M.D., Juntendo University, 1979
HINE, ALBERT C., Professor (Marine Science), St. Petersburg Campus, 1979
A.B.; M.S.; Ph.D., University of South Carolina, 1975
HINES, CONSTANCE V., Associate Professor (Educational Measurement and Research), 1983

B.A.; M.A., Ph.D., Ohio State University, 198l

HINNANT, HILARI A., Assistant in Education (Educational Research Center for Child Development), 1990
B.S.; M.S.Ed., Florida International University, 1976

HINSCH, GERTRUDE W., Professor (Biology), 1974
B.S.; M.S., Ph.D., Iowa State University, 1957

HINZ, JOHN, Professor (English), St. Petersburg Campus, 1979
B.A.; M.A., Ph.D., Columbia University, 1959

HIRT, VICTORIA J., Assistant Professor (Visual Arts), 1986
B.A.; DIP.F.A.; M.F.A., Rhode Island School of Design, 1986

HITE CLARE E., Lecturer (Counseling Center for Human Development),1985
B.A., M.Ed., Ed.S.; M.B.A., University of South Florida, 1982

HIXSON, JEFFREY S., Assistant Professor (Humanities), New College of USF, 1988
B.S.S.; M.A., Ph.D., University of Wisconsin, Madison, 1988

HNATH-CHISOLM, THERESA, Assistant Professor (Communicology), 1988
B.A.; M.A.; Ph.D., City University of New York, 1987

HODES, DEBRA L., Visiting Assistant in Research (Engineering), 1990
B.A., Ramapo College, 1983

HODGSON, JOHN S., Associate Provost (Academic Affairs), Professor (Business Administration), 1980
B.A.; M.B.A.; Ph.D. University of Virginia, 1971

HOF, JAMES E., Director (Academic Development), Ft. Myers, 1984
B.A., M.A., Bowling Green State University, 1951

HOFF, ANDREW M., Assistant Professor (Micro Electronics Engineering), 1988
B.S., B.S., Ph.D., Pennsylvania State University, 1988

HOFFMAN, HUBERT A., Professor-Chairperson (Professional Physical Education), 1966
B.S., M.Ed., P.E.D., Indiana University, 1969

HOFFMAN, MITCHEL S., Visiting Assistant Professor (Obstetrics and Gynecology), 1985
B.S.; M.D., University of South Florida, 1981

HOFFMAN, THEODORE B., Professor (Humanities), 1962
A.B., M.A., Ph.D., University of the Pacific, 1959

HOLCOMB, DAN L., Associate Professor-Assistant Director (Physical Education Facilities and Administration), 1965
B.Ed., M.S., Florida State University, 1962

HOLLAND, MARGARET S., Associate Professor (Content Specializations, English Education), 1966
B.A., M.A.T.; Ph.D., Union Graduate School, 1977

HOLLEY, SANDRA K., Visiting Instructor (Nursing), 1990
A.A.; B.S.N.; M.S., University of South Florida, 1989

HOLM, KATHRYN C., Coordinator-Assistant Professor (Music Arts), 1977
B.M.; M.M., Cleveland Institute of Music, 1975

HOLMAN, JOHN W., Associate Professor (English), 1988
B.A.; M.A.; Ph.D., University of Southern Mississippi, 1983

HOLMES, JOAN B., Coordinator (Academic Services), 1987
B.S.; M.A.; Ed.D., Ball State University, 1985

HOLMES, ROLAND C., Lecturer (Geography), St. Petersburg Campus, 1974
A.B., M.S.; Ph.D., University of Chicago, 1979

HOLSTRUM, GARY L., Director-Professor (Business), 1989
B.A., Ph.D., University of Iowa, 1970

HOLT, DOUGLAS A., Visiting Assistant Professor (Internal Medicine), 1989
B.S.; M.D., University of South Alabama, 1984

HOMAN, SUSAN P., Associate Professor (Childhood Education), 1978
B.A.E.; M.A.E.; Ph.D., University of Florida, 1978

HONKER, H. ANDREW, Associate Professor - Director (Physical Education), 1969
B.S., M.S., University of Illinois, 1965

HOOD, LEE R., Instructor/Librarian (Library), 1989
B.A.; M.L.S., Florida State University, 1989

HOOKS, KAREN L., Associate Professor (Accounting), 1979
B.A.; Ph.D., Georgia State University, 1981

HOOPER, ROBERT J., Assistant Professor (Geology), 1984
B.Sc.; M.S., University of South Carolina, 1982

HOOVER, DAVID W., Visiting Instructor (Business), 1989
B.B.A., M.B.A., Memphis State University, 1984

HOPKINS, THOMAS L., Professor-Associate Chairperson (Marine Science), St. Petersburg Campus, 1967
B.A., M.A., Ph.D., Florida State University, 1964

HOROWITZ, TONY, Assistant Professor (Natural Sciences), New College of USF, 1987
A.B.; Sc.M., Ph.D., Brown University, 1982

HOUSTON, BRENDA, Coordinator (Business Administration), 1987
B.S., Georgia Southern University, 1968

HOUSTON, GLORIA M., Visiting Assistant Professor (Childhood Education), 1988
B.S.; M.Ed., University of South Florida, 1983

HOWARTH, ELIZABETH H., Coordinator (Education), 1989
B.A.; M.Ed., James Madison University, 1985

HU, CHENG-SHIH, Associate In Research (Pediatrics), 1984
B.S.; M.S., University of Florida, 1983

HUBBELL, DAVID S., Associate Professor (Surgery), 1984
A.B., M.D., Duke University, 1946

HUFNAGEL, ELLEN M., Assistant Professor (Information Systems and Decision Sciences), 1988
B.A., M.S.; Ph.D., University of Pittsburgh, 1988

HUG, WILLIAM G., Professor (Dance), 1969
B.S., M.A., University of Illinois, 1960

HUGHES, PATRICK H., Visiting Associate Professor (Psychiatry), 1988
B.A., M.D., University of Pittsburgh, 1960

HULBARY, WILLIAM E., Associate Chairperson-Associate Professor (Political Science), 1976
B.A., M.A., Ph.D., University of Iowa, 1972

HUNT, JOHN J., Associate Professor (Educational Leadership), 1985
B.S.; Ed.M., Ed.D., Harvard University, 1968

HUSSAIN, SAJJAD F., Assistant Professor (Health Services, FMHI), 1983
M.B., B.S., M.S. , University Baroda , India, 1967

HUTCHCRAFT, GILBERT R., Associate Professor (Education Measurements and Research), Ft. Myers Campus, 1977
A.B., M.S., Ed.D., Indiana University, 1970

HUTCHISON, WILLIAM S., JR., Associate Professor (Social Work), 1977
B.A.; M.S.W., University of Georgia, 1968

HVIZDALA, EVA V., Associate Professor (Pediatrics), 1978
M.D., Charles University School of Medicine, Prague, Czechoslovakia, 1969

HYMOVICH, DEBRA P., Visiting Professor (Nursing), 1990
B.S.; M.A.; Ph.D., University of Maryland, 1973

IERARDO, DOMENICK, Professor (Languages), 1970
B.A.; M.A., Ph.D., New York University, 1974

IGARASHI, TOSHIHISA, Associate in Research (Medicine), 1989
M.D., Hiroshima University, 1982

INGALLS, ROBERT P., Chairperson-Professor (History), 1974
B.A.; M.A., Ph.D., Columbia University, 1973

ISAAK, SAMUEL M., Associate Professor (Mathematics), 1968
M.Sc.; Ph.D., Indiana University, 1965

ISBELL, ROBERT G., Associate Professor (Radiology), 1973
A.B.; M.D., University of Michigan Medical School, 1964

ISHII, EIZABURO, Associate in Research (Pediatrics), St. Petersburg, 1989
M.D., Shinshu University, 1980

ISMAIL, MOURAD E. H., Professor (Mathematics), 1987
B.S.C.E., M.S.C.E., Ph.D., University of Texas at Arlington, 1986

IWAI, HIROSHI, Research Scholar/Scientist (Pediatrics), St. Petersburg, 1989
M.D., Ph.D., Kansai Medical University, 1988

JABLONSKI, CAROL J., Associate Professor (Communication), 1986
B.A.; M.A., Ph.D., Purdue University, 1979

JACKSON, SUSAN, Assistant Professor (Library), 1989
B.A., M.S.L.S., Ph.D., University of North Carolina, 1986

JACKSON, II, WILLIAM B., Assistant Professor (Radiology), 1989
B.S., M.D., Howard University, 1985

JACOBSON, HOWARD N., Associate In Research (Public Health), 1988
B.S., M.D., Northwestern University, 1950

JAIN, VIJAY K., Professor (Electrical Engineering), 1972
B.E.; M.E.; Ph.D., Michigan State University, 1964

JAMES, MELVIN W., Counselor/Advisor (Undergraduate Studies), 1984
B.S.; M.A., University of South Florida, 1984

JAMES, NAVITA C., Associate Professor (Communication), 1981
B.A., M.A., Ph.D., Ohio State University, 1981

JAMES, PAULA, Counselor-Advisor (Undergraduate Studies), 1982
B.S., Bethune-Cookman College, 1972

JAMES, WAYNNE B., Associate Professor (Adult and Vocational Education), 1984
B.A.; M.S., Ed.D., University of Tennessee, 1976

JANARDHANAM, RAJARAM, Associate Professor (Civil Engineering and Mechanics), 1988
B.S.; M.S.; Ph.D., Virginia Polytechnic Institute State University, 1981

JANSSEN, WILLIAM E., Visiting Assistant Professor (Internal Medicine), 1989
A.B.; M.S.; Ph.D., State University of New York, 1989

JASTRZEBSKI, LUBOMIR L., Professor (Engineering), 1989
M.S., Ph.D., Polish Academy of Science, 1974

JAWORSKI, WARREN W., Associate Professor (Music), 1983
B.M., M.M.; D.M., Indiana University, 1981

JENKINS, JAMES J., Graduate Research Professor (Psychology), 1982
B.S.; M.A., Ph.D., University of Minnesota, 1950

JENKINS-HALL, KATURAH, Assistant Professor (Crime and Delinquency, FMHI), 1986
B.A., M.A., Ph.D., University of South Florida, 1984

JERMIER, JOHN M., Associate Professor (Management), 1983
B.S.; M.A., M.B.A., Ph.D., Ohio State University, 1979

JERVIS, GABRIELLE A., Visiting Assistant In (Pediatrics), 1986
B.A.; M.S., Sarah Lawrence College, 1986

JEVITT, CECILIA, Visiting Assistant In (Obstetrics and Gynecology), 1984
B.S.N.; M.N., Emory University, 1982, C.N.M.

JOHANNINGMEIER, ERWIN V., Professor (Psychological and Social Foundations, Education), 1968
A.B., M.A.Ed., Ph.D., University of Illinois, 1967

JOHNSON, CHRISTINE M., Visiting Instructor (Psychology), New College of USF, 1990
B.A.; Ph.D., Cornell University. 1990

JOHNSON, DALE A., Associate Professor (Finance), 1970
B.S.; M.B.A., D.B.A., Georgia State College, 1973

JOHNSON, FRANK F., JR., Professor (Adult and Vocational Education), 1971
B.A.; M.A.; Ed.D., Rutgers University, 1971

JOHNSON, KATHLEEN W., Assistant In Research (Gerontology), 1988
B.S.N., M.SN., University of South Florida, 1986

JOHNSON, MARSON H., Academic Administrator (Lakeland Center), 1987
B.S., M.S., M.A., Ph.D., Michigan State University, 1980

JOHNSON, MICHAEL K., Visiting Assistant Professor (FMHI), 1989
B.A., M.S., St. Louis University, 1987

JOHNSON, MICHAEL T., Visiting Instructor, (Anesthesiology), 1990
B.A.; D.O., Kirksville College of Osteopathic Medicine, 1984

JOHNSON, THOMAS E., JR., Associate Professor (Information Systems/Decision Sciences), 1974
B.S., M.A.; Ph.D., University of Alabama, 1971

JOHNSTON, J. HOWARD, Chairperson-Professor (Secondary Education), 1990
B.S., M.S.; Ph.D., University of Wyoming, 1974

JOHNSTON, MILTON D., JR., Associate Professor (Chemistry), 1973
B.A.; A.M., Ph.D., Princeton University, 1970

JOLLEY, ROBERT R., Coordinator (Marine Science), 1979
B.Sc., University of Miami, Florida, 1971

JONAITIS, ANTHONY J., JR., Associate Professor (Professional Physical Education), 1965
B.S., M.S., Springfield College, 1956

JONES, F. RON, Assistant In Research (Civil Engineering and Mechanics), 1988
M.P.A.; M.C.P.; Ph.D., Massachusetts Institute of Technology, 1981

JONES, HILTON K., Associate Professor (Music Arts), 1969
B.M.; M.M., Eastman School of Music, 1968

JONES, JANET L., Assistant In (Internal Medicine), 1987
B.A., University of Florida, 1973

JONES, LORRANNE, Visiting Assistant Professor (Child and Family Studies, FMHI), 1988
B.S.; M.A., Eastern Michigan University, 1976

JONES, W. DENVER, Professor (Physics), 1970
B.A.; M.A., Ph.D., Vanderbilt University, 1963

JORGENSEN, DANNY L., Associate Professor (Sociology), St. Petersburg Campus, 1978
B.S.; M.A.; Ph.D., Ohio State University, 1979

JORGENSEN, E. VERENA, Visiting Assistant Professor (Pediatrics), 1988
B.S.; M.D., Duke University, 1981

JOZSI, CELINA L., Lecturer (Accounting), 1976
B.A., M.A., University of South Florida, 1976

JREISAT, JAMIL E., Professor (Public Administration), 1968
B.S.; M.P.A., Ph.D., University of Pittsburgh, 1968

JUDISCH, JANIFER M., Professor (Pediatrics), 1975
M.D., State University of Iowa, 1963

JUERGENSEN, HANS, Professor (Humanities), 1961
B.A.; Ph.D., Johns Hopkins University, 1951, L.H.D.

JULIUS, RICHARD L., Assistant Professor (Pediatrics), 1981
B.S., M.D., University of Florida, 1966

JURCH, GEORGE R., JR., Professor (Chemistry), 1966
B.S.Ch.; M.S.; Ph.D., University of California, San Diego, 1965

JUSTER, THOMAS E., Visiting Instructor (Geology), 1990
B.S.; M.S., University of Wisconsin, Madison, 1984

JUWONO, IRENE, Visiting Coordinator (Small Business Deelopment Center) 1990
B.A., M.A.; M.B.A., University of South Florida, 1986

JYONOUCHI, HARUMI, Visiting Assistant Professor (Pediatrics), 1989
B.A., M.D., Yokohama City University, 1976

KAENZIG, JANET G., Assistant In (Pediatrics/Diabetes Center), 1988
B.S.N., Murray State University, 1974

KAFADER, KEITH, Assistant In Research (Pediatrics), 1985
B.S., M.A., Ball State University, 1981

KAHANA, LAWRENCE, Professor (Internal Medicine), 1987
B.S.; M.A.; M.D., Washington University College of Medicine, 1953

KAHN, STEPHEN C., Associate Professor (Accounting), 1969
B.A., M.A.; J.D., University of Florida, 1965

KALMAZ, ERROL E., Associate Professor (Public Health), 1990
B.A.; M.S., Ph.D., University of Oklahoma, 1974

KANAREK, KEITH S., Associate Professor (Pediatrics), 1979
M.B.B.Ch., University of Witwatersrand, Africa, 1966

KANATAS, GEORGE, Chairperson/Professor, (Finance), 1990
B.S.; Ph.D.; Ph.D.; Johns Hopkins University, 1978

KANGAS, RUTH, Assistant In Research (USF Diabetes Center), 1989
B.S., University of Florida, 1986

KAPATKIN, MAUREEN S., Visiting Instructor (Nursing), 1990
B.S.N.; M.S., University of South Florida, 1989

KAPLAN, RICHARD F., Associate Professor (Anesthesiology), 1988
B.S.; M.D., State University of New York, Upstate Medical Center, 1975

KAPPLIN, STEVEN D., Professor (Finance), 1974
A.B., Ph.D., Georgia State University, 1979

KARES, PETER, Associate Professor (Finance), 1969
B.Sc.; M.S., Ph.D., Purdue University, 1968

KARL, HERBERT G.,Professor (Social Science Education), St. Petersburg Campus, 1971
B.A., M.A., Ph.D., Florida State University, 1970

KARL, RICHARD C., Professor (Cancer Education), 1983
M.D., Cornell University Medical School, 1970

KARLINS, MARVIN, Professor (Management), 1974
B.A.; M.A., Ph.D., Princeton University, 1966

KARNISKI, WALT, Visiting Associate Professor (Pediatrics), 1981
M.D., University of Kansas Medical Center, 1976

KARNS, LEE T., Associate Professor (Educational Leadership, Education), Coordinator (Graduate Advising, Education), 1966
B.S., M.A.; M.Ed., Ed.D., University of Oklahoma, 1966

KARP, BENJAMIN C., Assistant Professor (Music), 1989
B.A., M.M., Indiana University, 1983

KARP, PAULINE, Instructor (Nursing), 1990
B.S.; B.S.N., M.S.N., Florida State University, 1988

KARST, ARTHUR E. JR., Associate In (Engineering), 1979
B.A., University of Florida, 1977

KARTSATOS, ATHANASSIOS G., Professor (Mathematics), 1971
Diploma, Ph.D., University of Athens, Greece, 1969

KASE-POLISINI, JUDITH B., Professor (Content Specializations, Education), 1969
B.A.; M.A., Case Western Reserve University, 1956

KASTEN, WENDY C., Assistant Professor (Childhood Education), Sarasota Campus, 1984
B.A.; M.Ed.; Ph.D., University of Arizona, 1984

KATZ, MARC W., Assistant Professor (Dance), 1982
B.M.; M.A., M.F.A., Case Western Reserve University, 1977
KATZ, NATHAN, Associate Professor (Religious Studies), 1984
A.B., M.A., Ph.D., Temple University, 1978
KATZENMEYER, MARILYN H., Program Director (Educational Leadership), 1985
B.A.; M.Ed., University of South Florida, 1977
KATZENMEYER, WILLIAM G., Dean-Professor (Education), 1978
A.B., M.A., Ed.D., Duke University, 1962
KAUB, ALAN R., Associate Professor (Civil Engineering and Mechanics), 1988
B.S.C.E.; M.S.C.E., Ph.D., University of Wisconsin, 1987
KAUFMAN, RONALD P., Vice President, Health Sciences - Professor, (Internal Medicine), 1987
B.S.; M.D., University of Pennsylvania School of Medicine, 1955,
KAUFMANN, DONALD L., Professor (English), 1968
B.A., M.L., Ph.D., University of Iowa, 1966
KAW, AUTAR K., Assistant Professor (Mechanical Engineering), 1987
B.E.; M.S., Ph.D., Clemson University, 1987
KAY, CHRISTOPHER J., Visiting Research Assistant Professor (Biochemistry), 1985
B.Sc.; Ph.D., Imperial College of Science and Technology, London, 1985
KAYWELL, JOAN F., Assistant Professor (Curriculum and, Instruction, Education), 1987
B.A.E., M.Ed., Ph.D., University of Florida, 1987
KAZAKS, PETER A., Professor (Natural Sciences), New College of USF, 1975
B.Sc.; M.S.; Ph.D., University of California, 1968
KAZANIS, BARBARA W., Associate Professor (Content Specializations, Education), 1974
B.S.; M.Ed., D.Ed., Pennsylvania State University, 1973
KEAN, DONALD K., Assistant Professor (Educational Measurement & Research), St. Petersburg Campus, 1990
B.A.; M.A., Ph.D., University of Georgia, 1984
KEARNEY, KEVIN E., Director - Associate Professor (Bachelor of Independent Studies), 1964
B.S., M.A., Ph.D., University of Florida, 1960
KEARNS, WILLIAM D., Visiting Assistant In (FMHI), 1981
B.A.; M.A., Ph.D., University of South Florida, 1989
KEENE, T. WAYNE, Associate Professor (Educational Leadership, Education), 1963
B.S.; M.Ed., Ed.D., University of Florida, 1963
KEEZER, DAVID C., Associate Professor (Engineering), 1989
B.A.; M.S.; Ph.D., Carnegie Mellon University, 1983
KEITH, ROBERT M., Professor (Accounting), 1969
B.S., M.Acc., Ph.D., University of Alabama, 1969, C.P.A.
KEITH, WILLIAM R., Jr., Visiting Assistant Professor (Internal Medicine), 1989
B.S., M.D., University of Florida, 1984
KELLER, RONALD K., Professor (Biochemistry), 1975
B.S.; Ph.D., Vanderbilt University, 1973
KELLEY, ANNE E., Associate Professor (Political Science), 1963
B.S., M.S., Ph.D., Florida State University, 1961
KELLY, TERRY M., Visiting Assistant Professor (Surgery), 1988
D.D.M., Southern Illinois University, School of Dental Medicine, 1984
KERNS, ROBERT L., Professor (Mass Communications), 1972
B.A.; M.A., Syracuse University, 1970
KESDEKIAN, MESROD, Lecturer (Theatre), 1990
B.A.; M.A., Pennsylvania State University, 1953
KHATOR, RENU, Assistant Professor (Political Science), 1985
B.A.; M.A., Ph.D., Purdue University, 1985
KHATOR, SURESH K., Associate Professor (Industrial and Management Systems, Engineering), 1983
B.E.; M.T.; Ph.D., Purdue University, 1975, P.E.
KHORSANDIAN, JAN K., Assistant Professor (Music Arts), 1971
B.S., M.S., University of Illinois, 1970
KIBRIA, ESHAN M., Visiting Assistant Professor (Neurology), 1990
M.S.; M.B.A.; D.O., Southeastern College of Osteopathic Medicine, 1985
KILLENBERG, GEORGE M., Professor (Mass Communications), St. Petersburg Campus, 1988
B.A.; M.A., Ph.D., Southern Illinois University, 1975
KILLINGER, DENNIS K., Professor (Physics), 1987
B.A.; M.A.; Ph.D., University of Michigan, 1978
KIMMEL, HERBERT D., Graduate Research Professor (Psychology), 1968
B.S., M.A., Ph.D., University of Southern California, 1958
KIMMEL, M.E., Professor (Psychological and Social Foundations Education), 1968
B.A.; M.A., Ph.D., University of Florida, 1965
KINDER, BILLY N., Professor (Psychology), 1976
B.S.; Ph.D., University of South Carolina, 1975
KING, FIRMAN D., Assistant Professor (Electrical Engineering), 1987
B.S.; M.S., Ph.D., University of Florida, 1980
KING, JAMES R., Associate Professor (Childhood Education), 1990
B.A., M.A.; Ed.D., West Virginia University, 1980
KING, ROBERT J., Visiting Assistant Professor (Visual Arts), 1990
B.A., University of South Florida, 1969
KING, SYLVIA C., Counselor/Advisor (Arts and Sciences), 1974
B.S.; M.A.T.; M.S., University of Washington, 1965
KIRCHOFF, GARY T., Assistant Professor (Anesthesiology), 1989
B.S.; M.D., Ponce School of Medicine, 1984
KIRKLEN, LEONARD E., Counselor/Advisor (Counseling Center for Human Development), 1985
B.A., M.S., Ph.D., Purdue University, 1982
KIRKPATRICK, ANTHONY F., Assistant Professor (Anesthesiology), 1988
B.S.; M.S.; Ph.D.; M.D., University of Dominica, 1980
KLAPPER, JONNI H. Visiting Assistant Professor (Pediatrics), 1985
A.B., B.S.R.N.; M.D., University of Dominica, 1981
KLEIMAN, MICHAEL B., Associate Professor (Sociology), 1978
B.A.; M.A., Ph.D., Pennsylvania State University, 1979
KLEIN, THOMAS W., Professor (Medical Microbiology), 1973
B.S., Ph.D., Creighton University, 1972
KLEINE, GEORG-HELMUT, Associate Professor (History), 1968
Ph.D., University Erlangen-Numberg, 1967
KLEINER, MARTIN H., Visiting Associate In (Engineering), 1989
B.S., University of South Florida, 1980
KLEMPERER, MARTIN R., Professor (Medicine), St. Petersburg Campus, 1987
A.B.; M.D., New York University School of Medicine, 1957
KLESIUS, JANELL P., Professor (Childhood Education), 1972
B.S.; M.A.; Ph.D., Florida State University, 1980
KLESIUS, STEPHEN E., Professor (Professional Physical Education), 1969
B.S., M.A.; Ph.D., Louisiana State University, 1968
KLOTCH, DOUGLAS W., Associate Professor (Cancer Education), 1987
B.A.; M.D., State University of New York at Buffalo, 1971
KNEEBURG, DON W., Associate Professor (Music Arts), 1968
B.A.; M.M., Indiana University, 1962
KNEGO, JOHN M., Associate Professor (Library, Media, and Information Studies, Education), 1975
M.A., Ph.D., Indiana University, 1974
KNIPPEN, JAY T., Associate Professor (Management), 1970
B.B.A., M.B.A., D.B.A., Florida State University, 1970
KNOFF, HOWARD M., Associate Professor (Psychological and Social Foundations, Education), 1985
A.B.; M.S., Ph.D., Syracuse University, 1980
KNOX, MICHAEL D., Associate Professor-Chairperson (Community Mental Health, FMHI), 1986
B.A.; M.S.W., M.A., Ph.D., University of Michigan, 1974
KNOX, ROBERT H., Professor (Humanities), New College of USF, 1975
A.B., Ph.D., Harvard University, 1959
KO, WAI L., Associate Professor (Electrical Engineering), 1987
B.S.E.E., M.S.E.E.; Ph.D., University of Illinois, Urbana, 1976
KOCH, DIANE E., Visiting Assistant Professor (Pediatrics), 1989
B.S.; M.A., Ph.D., University of Rochester, 1981
KOEHLER, JERRY W., Associate Professor, 1976
B.S., M.A.; D.Ed., Pennsylvania State University, 1968
KOGUT, CARL A. Assistant Professor (Economics), 1985
B.A.; Ph.D., Texas A&M University, 1984
KORI, SHASHIDAR H. Associate Professor (Neurology), 1984
M.B.B.S., Kasturba Medical College, India, 1970
KORTHALS, JAN K., Associate Professor (Neurology), 1980
M.D; Ph.D., Medical School, Warsaw, Poland, 1968
KOSBERG, JORDAN I., Professor (Gerontology), 1981
B.S., M.S.S.W.; Ph.D., University of Chicago, 1971
KOULIANOS, GEORGE M., Associate in Research (Suncoast Gerontology Center), 1989

B.A.; M.A., University of South Florida, 1988

KOUSSEFF, BORIS, Professor (Pediatrics), 1981
M.D., High Institute of Medicine, in Sofia, Bulgaria, 1959

KOVAC, MICHAEL G., Dean-Professor (Engineering), 1979
B.S.E.E.; M.S.E.E., Ph.D. in E.E., Northwestern University, 1970, P.E.

KOVACS, STEPHEN G., Visiting Assistant Professor (Surgery), 1990
B.S., M.S., University of Alabama, 1968

KOWALSKI, JAMES C., Visiting Assistant In (FMHI), 1989
B.S.; M.B.A.; M.S., Nova University, 1990

KRAGLER, SHERRY E., Visiting Instructor (Childhood Education), 1990
B.S., M.S.; Ed.S., Ph.D., University of Florida, 1986

KRANC, STANLEY C., Professor (Civil Engineering and Mechanics), 1972
B.S.S.E., Ph.D., Northwestern University, 1968, P.E.

KROMREY, JEFFREY D., Visiting Assistant Professor (College Administration, Education), 1985
B.A., M.A., Ph.D., University of South Florida, 1989

KRONSNOBLE, JEFFREY M., Professor (Visual Arts), 1963
B.S.; M.F.A., University of Michigan, 1963

KRZANOWSKI, JOSEPH J., Professor - Assistant Chairperson (Pharmacology), 1971
B.S.; M.S.; M.A., Ph.D., University of Tennessee, 1968

KU, NINI A., Assistant Professor (Pathology), 1990
M.D., Lady Hardinge Medical College, 1981

KULKARNI, ARUN P., Associate Professor (Public Health), 1987
B.Sc., M.Sc.; Ph.D., Indian Agricultural Research Institute, 1970

KUNAK, DENNY V., Assistant Professor (Industrial and Management Systems Engineering), 1983
B.E.; M.B.A.; Ph.D.; D.Sc., Swiss Federal Institute of Technology, 1981

KUSHNER, GILBERT, Professor (Anthropology), 1970
B.A., M.A., Ph.D., University of Arizona, 1968

KUTASH, KRISTA B., Assistant In (Epidemiology and Policy Analyst, FMHI), 1977
B.S.; M.B.A., University of South Florida, 1984

KUTCHER, LOUIS W., JR., Assistant Professor (Sociology), 1967
A.B., M.A., Ph.D., University of Minnesota, 1972

KWA, BOO H., Assistant Professor (Public Health), 1986
B.S., M.S.; Ph.D., University of Malaya, 1977

LA BARBA, RICHARD C., Professor (Psychology), 1966
B.A.; Ph.D., University of Tennessee, 1965

LABAW, PHYLLIS M., Counselor/Advisor (Business Administration), 1990
B.A., University of South Florida, 1978

LACHS, GERARD, Professor (Electrical Engineering), 1984
B.S.; M.S.; Ph.D., Syracuse University, 1964

LAFRAMBOISE, KATHRYN L., Visiting Instructor (Education), 1989
B.A.; M.A., Ph.D., University of South Florida, 1989

LAGACE, ROSEMARY R., Assistant Professor (Business), 1989
B.A., M.B.A., Ph.D., University of Cincinnati, 1987

LAGOWSKI, JACEK J., Professor (Engineering), 1989
B.S.; Ph.D., Polish Academy of Sciences, 1968

LAKE, MARIAN, Visiting Assistant In (Obstetrics and Gynecology), 1984
B.S.N.; M.P.H., University of South Florida, 1985

LAMBERT, DOUGLAS M. Professor (Marketing), 1985
B.A., M.B.A.; Ph.D., Ohio State University, 1975

LAMBERT, TIMOTHY R., Assistant in Research (Engineering), 1990
B.A., M.A., University of Michigan, 1981

LANCRAFT, THOMAS M., Assistant In Research (Marine Science), 1981
B.A., University of California, Santa Barbara, 1977

LANCZ, GERALD J., Associate Professor (Medical Microbiology), 1971
A.B., M.S., Ph.D., Northwestern University, 1970

LANDER, GERALD H., Professor (Accounting), 1981
B.A.; M.B.A.; D.B.A., University of Kentucky, 1980

LANDERS, MYRTICE, Counselor/Advisor (Undergraduate Studies), 1981
B.A., Ed.S., University of Florida, 1981

LANDIS, DAVID L., Associate Professor (Micro Electronics, Engineering), 1988
B.S.; M.S.; Ph.D., Pennsylvania State University, 1982

LANDSMAN, MURRAY J., Associate Professor (Rehabilitation Counseling), 1969
B.S., M.A., Ph.D., University of Florida, 1964

LANGSTON, DOUGLAS C., Professor (Humanities), New College of USF, 1977
B.A.; M.A.; M.A.; Ph.D., Princeton University, 1978

LANTZ, DONALD L., Professor (Psychological and Social Foundations, Education), 1961
A.B., M.A., Ph.D., University of Minnesota, 1961

LA POLLA, JAMES P., Assistant Professor (Obstetrics and Gynecology), 1986
B.S., M.D., University of Illinois, 1975

LARSEN, MERNET L., Professor (Visual Arts), 1967
B.F.A.; M.F.A., Indiana University, 1965

LARSON, RONALD E., Assistant In Research (Biology), 1988
B.S.; M.S., University of South Florida, 1975

LARSON-PRESSWALLA, JOYCE, Assistant Professor, (Nursing), 1990
R.N.; B.S., M.S.; Ph.D., University of Illinois, Chicago, 1986

LASSETER, JAMES JR., Assistant Professor (Accounting), 1966
B.S.; M.B.A.,University of Chicago, 1964, C.P.A.

*LATINA, ALBERT A., Lecturer (Biology), 1960
B.A.; M.S., Florida State University, 1960

LAURSEN, GARY A. H., Associate Professor (Accounting/Law), 1980
B.S.; J.D., LL.M., University of Miami Law School, 1972, C.P.A.

LAVELY, CAROLYN D., Professor-Program Director (College Administration, Education), 1970
B.A., M.A., Ph.D., Syracuse University, 1968

LAWRENCE, JOHN M., Professor (Biology), 1965
B.S., A.M., Ph.D., Stanford University, 1966

LAWSON, STEVEN F., Professor (History), 1972
B.A.; M.A., Ph.D., Columbia University, 1974

LAX, BERNARD, Professor (Exceptional Child Education), 1979
B.A., M.A., Ph.D., University of Texas, 1970

LAYDEN, WILLIAM E., Professor-Chairperson (Ophthalmology), 1972
B.A., M.D., University of Vermont, 1963

LEASE, LORETTA, Assistant In (Pediatrics), 1987
B.A., University of South Florida, 1977

LEAVERTON, PAUL E., Professor-Chairperson (Public Health), 1985
B.S., M.S., Ph.D., Iowa State University, 1963

LEDFORD, DENNIS K., Visiting Assistant Professor (Internal Medicine), 1985
B.Ch.Eng.; M.D., University of Tennessee, 1976

LEE, BARTON W., Associate Professor (Theatre), 1982
B.S.; M.A., West Virginia University, 1978

LEE, HEI-WAI, Assistant Professor (Finance), 1990
M.S.; M.B.A.; M.S., Ph.D., University of Illinois, 1989

LEE, REX A., Visiting Associate in (Engineering), 1990
B.S., M.A., University of South Florida, 1977

LEE, SANG-SUB, Instructor (Economics), 1990
B.A.; M.S., University of North Carolina, 1987

LEE, SUNG JAE, Professor (Mathematics), 1981
B.Sc.; M.A.; Ph.D., McMaster University, Canada, 1972

LEE, WILLIAM E. III, Associate Professor (Chemical Engineering), 1984
B.S.Ch.E., M.S.Ch.E.; Ph.D., University of Cincinnati, 1984

LEEDS, ROBERT L. JR., Visiting Lecturer (Business Administration), 1982
B.A.; M.B.A., Wharton School, University of Pennsylvania, 1953

LEFFEW, JAMES T. Assistant Professor (Electrical Engineering), 1985
B.S.E.E., M.S.E.E.; Ph.D., University of South Florida, 1985

LEIBMANN, SUSAN, Visiting Assistant Professor (Medicine), 1988
B.S., M.D., University of Florida, 1980

LENGACHER, CECILE A., Assistant Dean-Associate Professor (Nursing), 1988
B.S.N.; M.S.N., Ph.D., Marquette University, 1983

LENNARD, SUSAN, Visiting Assistant In (FMHI), 1989
B.A., University of South Florida, 1986

LESLIE, LARRY Z., Assistant Professor (Mass Communications), 1986
B.S.E.; M.A.; Ph.D., University of Tennessee, 1986

LEUNG, LAWRENCE C., Visiting Associate Professor (Engineering), 1989
B.S.I.E.; M.S., Ph.D., Virginia Polytechnic Institute, 1983

LE VASSEUR, MICHAL L., Instructor (Geography), 1980
B.A., M.A., University of South Florida, 1973

LEVIN, BRUCE L., Associate Chairperson-Associate Professor (Epidemiology and Policy Analyst, FMHI), 1984
B.S.; M.P.H., D.P.H., University of Texas, 1983

LEVIN, PETER J., Dean-Professor (Public Health), 1984
B.A.; M.P.H.; D.Sc., Johns Hopkins School of Hygiene and Public Health,

1969

LEVINE, EDWARD L., Professor-Associate Chairperson (Psychology), 1977
B.S.; Ph.D., New York University, 1970

LEVINSON, DEBORAH P., Visiting Assistant Professor (Engineering), 1990
B.S., M.Ed.; M.A.; Ph.D., University of South Florida, 1988

LEVITSKY, DIANE, Visiting Assistant In (Education), 1966
B.S.W., University of South Florida, 1984

LEVY, ARTHUR B., Associate Professor (Political Science), 1970
B.A., M.A., Ph.D., Harvard University, 1969

LEVY, CHARLENE C., Associate Professor-Chairperson (Social Sciences), New College of USF, 1975
B.A., M.A., Ph.D., Michigan State University, 1975

LEVY, JOHN W., Associate Professor (Content Specializations, Education), 1972
B.S.; M.A.; Ed.D., University of Georgia, 1970

LEWIS, EUGENE, Professor (Social Sciences), New College of USF, 1978
B.A.; M.A.; Ph.D., Syracuse University, 1967

LEWIS, JAMES E., Professor (Music Arts), 1971
B.M., M.M., University of Illinois, 1965

LIANG, JOSEPH J., Professor (Mathematics), 1970
B.A., M.A., Ph.D., Ohio State University, 1969

LICHTENBERG, BETTY K., Professor (Content Specializations, Education), 1971
B.A., M.A.; Ph.D., University of Illinois, 1967

LICHTENBERG, DONOVAN R., Professor (Content Specializations, Education), 1962
B.A.; M.S., Ph.D., University of Wisconsin, 1966

LILLER, KAREN D., Assistant Professor (Public Health), 1990
B.S.; M.A., Ed.S., Ph.D., University of South Florida, 1988

LILLETHUN, ABBY G., Associate Professor (Theatre), 1981
B.F.A.; M.F.A., Florida State University, 1980

LIM, DANIEL V., Professor (Biology), 1976
B.A.; Ph.D., Texas A&M University, 1973

LIN, SHWU-YENG T., Associate Professor (Mathematics), 1964
B.S., M.S., Ph.D., University of Florida, 1965

LIN, YOU-FENG, Professor (Mathematics), 1964
B.Sc., Ph.D., University of Florida, 1964

LINDBERG, MARK B., Assistant Professor (Geography), 1990
B.A.; M.A.; Ph.D., University of Kansas, 1987

LINDER, JEAN B., Associate Professor (Childhood Education), 1977
B.S.; Ed.M., Ed.D., State University of New York, Buffalo, 1977

LINDER, RONALD, Professor (Childhood Education), 1969
B.S., M.S., Ed.D., University of Florida, 1969

LINDSEY, BRUCE G., Professor (Physiology), 1977
B.A.; Ph.D., University of Pennsylvania, 1974

LITMAN, GARY W., Professor (Pediatrics), 1990
B.A., Ph.D., University of Minnesota, 1972

LITMAN, RONDA T., Associate in (Pediatrics), 1990
B.A., University of California, Berkeley, 1969

LIU, EN Z., Associate in Research (Surgery), 1989
M.D., M.M.S., Harbin Medical University, 1982

LIVERMORE, JILL D., Visiting Lecturer (GraphicStudio), 1990
B.F.A., Arizona State University, 1981

LLEWELLYN, JOHN A., Associate Dean-Professor (Engineering), 1971
B.Sc., Ph.D., University College Cardiff, 1958

LOCKEY, RICHARD F., Professor-Acting Director (Internal Medicine), 1984
B.S.; M.S.; M.D., Temple University School of Medicine, 1965

LOCKHART, JORGE L., Professor (Surgery), 1987
M.D., University of Montevideo, Uruguay, 1970

LOEDING, BARBARA, Visiting Instructor (Communications Sciences & Disorders) 1990
B.A.; M.S.; Ph.D., Purdue University, 1989

LOH, WELLINGTON, Assistant Professor (Pediatrics), 1988
B.A.; M.D., University of Texas, 1982

LOMBARDI, GINA M., Research Associate (Public Health), 1988
B.A., M.A., University of South Florida, 1988

LONG, MARILYN C. Assistant Professor (Nursing), 1978
B.S.; M.S., Ph.D., University of South Florida, 1988

LOOMER, GLENN W., Assistant In (Information System Decision Sciences), 1984
B.A., University of South Florida, 1981

LOPEZ, GUILLERMO, Visiting Professor (Public Health), 1989
B.S.; M.D.; M.S., St. Louis University, 1947

LOPEZ, LORETTA C., Associate Professor (Nursing), 1986
B.S.N.; M.Ed., Ed.D., Teachers College, Columbia University, 1980

LORENZEN, WILLIAM A., III, Professor (Theatre Arts), 1966
B.S.S.; M.F.A., Tulane University, 1966

LOVE, LUCY C., Assistant Professor (Surgery), 1984
B.A., M.D., University of Texas Medical Branch, Galveston, 1978

LOVELESS, RICHARD L., Professor (Content Specializations, Education), 1968
B.S.; M.S., Pennsylvania State University, 1964

LOWE, ALVIN J., Professor (Childhood Education), 1966
B.A., M.A.; Ed.D., University of Virginia, 1967, D.A.G.S.,

LOWELL, NANCY E., Research Assistant In (Pathology), 1982
B.A., M.S., University of South Florida, 1984

LOWITT, SAUL, Visiting Assistant Professor (Pediatrics), 1983
B.S., M.S.; M.D., University of South Florida, 1979

LUCOFF, MANNY, Professor (Mass Communications), 1963
B.S., M.A.; Ph.D., University of Iowa, 1971

LUEKEN, LINDA P., Counselor/Advisor (Undergraduate Studies), 1987
B.A., M.A., University of West Florida, 1987

LUPTON, D. KEITH, Lecturer *Emeritus* (Undergraduate Studies), 1967
B.S.; LL.B; M.A., Dartmouth College, 1951

LUTHER, MARK E., Associate Professor (Marine Science), 1990
B.A., M.S., Ph.D., University of North Carolina, 1982

LYMAN, CHARLES P., Professor (Visual Arts), 1972
B.A.; M.S., Institute of Design, Illinois Institute of Technology, 1969

LYMAN, GARY H., Professor (Internal Medicine), 1977
B.A., M.D., M.P.H., Harvard, 1982

MACK, LINDA, Assistant Professor (Communication Sciences & Disorders), 1990
B.A.; M.A.; Ph.D., University of Florida, 1989

MACKEY, BERNARD A., Associate Vice President (Academic Affairs), 1972
B.F.A.; M.A.; Ph.D., University of Florida, 1977

MAC MANUS, SUSAN A., Chairperson-Professor (Public Administration), 1987
B.A.; M.A.; Ph.D., Florida State University, 1975

MADER, JAMES, Visiting Associate in (Engineering), 1989
B.S.E.E., Purdue University, 1959

MADRIGAL, LORENA, Assistant Professor (Anthropology), 1988
B.S.; M.A.; Ph.D., University of Kansas, 1988

MALONE, JOHN I., Professor (Pediatrics), 1972
B.S.; M.D., University of Pennsylvania School of Medicine, 1967

MALONEY, MARY A., Visiting Assistant In (Education), 1988

MAMEL, JAY J., Associate Professor (Internal Medicine), 1979
B.A., M.D., University of Wisconsin Medical School, 1974

MANCK, WILLIAM J., Director (Management), 1980
B.S.; M.B.A., College of the City of New York, 1966

MANDELL, LEON, Professor (Chemistry), 1983
B.S.; M.A., Ph.D., Harvard University, 1951

MANDELL, SARA R. Assistant Professor (Classics), 1984
A.B.; A.M., Ph.D., New York University, 1969

MANGUM, WILEY P., Associate Professor (Gerontology), 1972
B.A., M.A.; Ph.D., University of Southern California, 1971

MANN, MARCIA L., Assistant Dean-Professor (SCATT, Education), 1970
B.A.; M.Ed.; Ph.D., University of Nebraska, 1970

MANNING, RANDOLPH, Associate Dean-Associate Professor (Medicine), 1989
B.A.; M.A., Ed.D., George Washington University, 1974

MANOUGIAN, MANOUG N., Professor (Mathematics), 1968
B.A., M.A., Ph.D., University of Texas, 1968

MANSELL, JOYCE A., Counselor/Advisor (Student Personnel Education), 1983
B.S., M.S., Indiana University, 1964

MANSELL, RICHARD L., Associate Dean-Professor (Graduate School), 1967
A.B., M.A., Ph.D., Indiana University, 1964

MARCUS, LOUIS S., Associate Professor (Visual Arts), 1985
B.A.; M.A.; M.F.A., University of Colorado, 1982

MARHUENDA, FRANCISCO H., Visiting Assistant Professor (New College of USF), 1990
B.S.; Ph..D., University of Rochester, 1990

MARIN, KIM A., Visiting Associate In Research (Engineering), 1986
B.A., M.B.A., University of South Florida, 1984

MARONIC, KEVIN J., Counselor/Advisor (Undergraduate Studies), 1983
B.S.; B.A., University of South Florida, 1982

MAROULIS, GEORGE B., Professor (Obstetrics/Gynecology), 1985
B.S.; M.D., Albany Medical College, 1967

MARSH, BRUCE L., Acting Chairperson-Professor (Visual Arts), 1969
B.A.; M.A., California State University, 1965

MARSH, KRISTINA M., Visiting Assistant Professor (FMHI), 1990
B.A., M.A., University of South Florida, 1978

MARTIN, DEAN F., Professor (Chemistry), 1964
A.B.; Ph.D., Pennsylvania State University, 1958

MARTIN, DIANE K., Instructor (Adult & Vocational Education), 1990
B.A.; M.B.A.; M.A., University of South Florida, 1986

MARTIN, JAMES R., Associate Professor (Accounting), 1982
B.S., M.S.; Ph.D., University of Alabama, 1976, C.M.A.

MARTIN, JOSELIN R., Visiting Instructor (Economics), 1990
B.A.; M.A., University of South Florida, 1989

MARTIN, SUSAN M., Lecturer (Counseling Center for Human Development), 1984
B.A., M.A., Ed.S., University of South Florida, 1983

MARTINEZ-OSUNA, PINDARO, Assistant in Research (Internal Medicine), 1990
M.D., LaSalle University, Mexican School of Medicine, 1981

MARTON, FRANCES, Visiting Assistant Professor (Psychiatry), 1988
B.S.; M.S., University of Wisconsin, 1978

MARTY,PHILLIP J., Professor (Public Health), 1990
B.S.,; M.S., Ph.D., University of Wisconsin, Madison, 1980

MASON, FRANK T., Assistant Professor (English), 1969
B.A.; M.A., Ph.D., Michigan State University, 1974

MASSEY, OLIVER T., Assistant Professor (FMHI), 1989
B.A., Ph.D., University of Tennessee, 1982

MASSIE, PAUL, Professor (Theatre Arts), 1974

MASTROGIANNIS, DIMITRIOS S., Visiting Instructor (Medicine), 1989
M.D., Ph.D., University of Patras, Greece, 1989

MATSUI, KATSUHIKO, Visiting Research Associate (Medical Microbiology& Immunology), 1990
B.S., M.S., Meiji College of Pharmacy, 1987

MAURER, PETER M., Assistant Professor (Computer Science and Engineering), 1987
B.A.; M.S., Ph.D., Iowa State University, 1982

MAUSER, AUGUST J., Professor (Exceptional Child Education), 1981
B.S., M.S., Ed.D., Indiana University, 1968

MAYER, GEORGE H., Professor (History), Sarasota Campus, 1969
B.A.; M.A.; Ph.D., University of Minnesota, 1948

MAZUR, JOSEPH L., Professor-Chairperson (Measurement and Research Education), 1968
A.B.; M.A.; Ph.D., Case Western Reserve University, 1968

MC ALISTER, LINDA L., Professor (Interdisciplinary Social Science), 1982
A.B.; Ph.D., Cornell University, 1968

MC ALLISTER, EARL W., Assistant Professor (Surgery), 1988
B.S., M.D., Louisiana State University, 1980

MC CARTY, KATHLEEN, Visiting Assistant Professor (Psychiatry), 1990

MC CHRISTIAN, LYNN, Professor (Mass Communication), 1989
B.A.; M.A., University of Arkansas, 1981

MC CLELLAN, LESLIE, Professor (Childhood Education), 1964
B.S., M.Ed., Ed.D., University of Missouri, 1961

MC CLENDON, PAUL E., Associate Dean-Professor (Educational Leadership), Sarasota Campus, 1969
B.S.; M.A.; Ed.D., Florida State University, 1963

MC COLM, GREGORY L., Assistant Professor (Mathematics), 1986
B.A.; M.A., Ph.D., University of California, Los Angeles, 1986

MC CORMICK, ROBERT M., Professor (Music Arts), 1974
B.A.; M.A., San Jose State University, 1973

MC COY, CHERYL D., Instructor/Librarian (University Library), 1990
B.A.; M.A., University of South Florida, 1989

MC COY, EARL D., Associate Professor (Biology), 1978
B.S.; M.S.; Ph.D., Florida State University, 1977

MC CROSSAN, JOHN A., Professor (Library, Media, and Information Studies, Education), 1977
B.A., M.A.; Ph.D., University of Illinois, 1966

MC DERMOTT, ROBERT J., Associate Professor (Public Health), 1986
B.S., M.S., Ph.D., University of Wisconsin, Madison, 1981

MC DIARMID, JOHN F., Associate Professor (Humanities), New College of USF, 1983
B.A.; M.Phil., Ph.D., Yale University, 1980

MC DONOGH, GARY W., Associate Professor (Social Sciences), New College of USF, 1981
B.A.; M.A.; Ph.D., Johns Hopkins University, 1981

MC EVOY, CATHY L., Assistant Professor (Aging and Mental Health, FMHI), 1983
B.A., M.A., Ph.D., University of South Florida, 1982

MC GLINCHEY, PAMELA G., Coordinator, (Research Programs/Services-FMHI), 1989
M.A.; M.P.A., University of South Florida, 1988

MC GRATH, ROGER R., Instructor - Acting Program Director (Information Systems and Decision Sciences), 1981
B.S.; M.P.S.; D.B.A., Florida State University, 1982

MC GUINNESS, DIANE, Associate Professor (Psychology), Ft. Myers Campus, 1985
B.A.; B.Sc.; Ph.D., University College, London, 1974

MC HUGH, RICHARD J., Director (Center for Economic Management Research), 1990
B.A.; Ph.D., Syracuse University, 1978

MC INTOSH, DANIEL, Visiting Instructor (Political Science), New College at USF, 1989
B.A., B.A.; M.A., University of Denver, 1984

MC INTOSH, NANCY J., Associate Professor (Management), St. Petersburg Campus, 1981
B.A.; M.A.; Ph.D., University of Florida, 1984

MC KELL, THOMAS E. Associate Dean-Professor (Medicine), 1985
B.A.; M.D., University of Tennessee, 1939

MC KEOWN, PETER P., Associate Professor (Surgery), 1989
B.A., B.S., M.B., University of Queensland, 1975

MC KNIGHT, GEORGE T., Instructor, (Ophthalmology), 1990
B.S.; M.D. Louisiana State University, 1977

MC LAUGHLIN, THOMAS E., Associate Professor (Visual Arts), 1978
B.A.; M.F.A., Indiana University, 1978

MC LEAN, MARK P., Visiting Assistant Professor (Obstetrics/Gynecology), 1990
B.S., M.S.; Ph.D., University of Illinois, 1986

MC MAHON, ANITA, Assistant Professor (Nursing), 1989
R.N.; B.S.; M.A.; Ed.D., St. Johns University

MC MILLAN, DONALD E., Visiting Professor (Pediatrics), 1987
A.B., M.D., Stanford University, 1957

MC MILLIAN, SUSAN C., Associate Professor (Nursing), 1983
B.S.; M.Ed.; B.S.N.; Ph.D., M.S.N., University of South Florida, 1984

MC RAE, SHARMAN P., Counselor/Advisor (Undergraduate Studies), 1983
B.S.; M.Ed., University of Louisville, 1974

MC WATERS DEBRA L., Visiting Chairperson/Assistant Professor (Dance), 1990
B.A., M.A., University of South Florida, 1976

MC WATERS, MARCUS M., JR., Associate Professor (Mathematics), 1966
B.S., Ph.D., University of Florida, 1966

MEAD, C. GAIL, Lecturer (Humanities), New College of USF, 1975

MEDVECZKY, MARIA M., Visiting Research Associate (Medical Microbiology and Immunology), 1990
B.S., Budapest Gymnasium, 1966

MEDVECZKY, PETER G., Associate Professor (Medical Microbiology and Immunology), 1990
B.S.; M.D., Semmel-Weis Medical School, 1970

MEISELS, GERHARD, Provost-Professor (Academic Affairs), 1988
B.S.; M.S., Ph.D., University of Notre Dame, 1956

MELREIT, JOANN E., Counselor/Advisor (Business Administration), 1987
B.A.; B.S., University of South Florida, 1987

MENDELBLATT, FRANK, Visiting Associate Professor (Ophthalmology), 1979
M.D., University of Miami, Florida, 1960

MENENDEZ, DONNA R., Instructor/Librarian (University Library), 1985
B.A., M.S.L.S., Florida State University, 1974

MENTIS, SUE W., Assistant Professor (Anesthesiology), 1990
B.M., B.S.; FFA(SA), College of Medicine of South Africa, 1986

MENZEL, DONALD C., Professor (Public Administration), 1983
B.A.; M.A.; Ph.D., Pennsylvania State University, 1973
MENZIES, ROBERT A., Visiting Assistant Professor (Psychiatry), 1989
B.S., M.S.; Ph.D., Cornell University, 1966
MERCER, GAYLE L., Instructor (Nursing), 1988
B.S.N., M.S., University of South Florida, 1987
MERICA, JOHN A., Associate Professor (Exceptional Child Education), 1968
B.A., M.S., Ph.D., Syracuse University, 1971
MERRITT, THEATA J., Visiting Assistant Professor (Nursing), 1987
B.S.N.; M.S.N., University of Alabama, 1979
MESTER, STEPHEN W., Visiting Assistant Professor (Medicine), 1989
B.A.; M.D., University of Florida, 1983
METZGER, ELIZABETH A., Associate Professor-Program Director (English), 1982
B.A.; Ph.D., State University of New York at Buffalo, 1977
MEURER, JEANNE, Visiting Assistant Professor (Public Health), 1985
B.S.N., M.S.N.; M.S.M.N., Columbia University, 1970
MEYER, RICHARD L., Acting Chairperson-Professor (Finance), 1970
B.S., M.B.A., Ph.D., University of Wisconsin, 1971
MICCERI, THEODORE, JR., Visiting Research Associate (Educational Leadership and Higher Education), 1985
B.A.; B.A.; M.A., University of South Florida, 1973
MICHAELS, CHARLES E., Associate Professor (Management), 1983
B.A.; M.A.; Ph.D., University of South Florida, 1983
MIDDLETON, LILLIAN M., Visiting Assistant Professor (Suncoast Gerontology Center), 1981
B.A., M.A.; M.S.W., Florida State University, 1974
MIECZKOWSKI, THOMAS M., Assistant Professor (Criminology), 1989
B.A., M.A., Ph.D., Wayne State University, 1984
MIER, CARMEN E., Assistant Professor (Health Sciences), 1989
B.S.; M.D., Zaragoza School of Medicine, 1979
MIERZEJEWSKI, EDWARD A., Assistant In Research (Civil Engineering, and Mechanics), 1988
B.S.; M.S., Massachusetts Institute of Technology, 1971, P.E.
MIGUEL, RAFAEL V., Assistant Professor (Anesthesiology), 1985
M.D., University of Seville, Cadiz Medical School, Spain, 1981
MILANI, MOHSEN, Assistant Professor (Political Science), 1987
B.A.; M.A., Ph.D., University of Southern California, 1985
MILES, STEPHEN T., Assistant Professor (Humanities), New College of USF, 1988
B.M.; M.M., D.M.A., University of Illinois-Urbana, 1990
MILHOLM, RICHARD L., Assistant Professor - Visiting Program Director (Family Medicine) 1988
B.S.; M.D., Loma Linda University, 1963
MILJUS, ROBERT C., Visiting Professor (Management), Fort Myers, 1989
B.A.; M.A.; Ph.D., University of Wisconsin, 1963
MILLER, ARTHUR McA., Professor (Humanities), New College of USF, 1975
A.B.; M.A., Ph.D., Duke University, 1966
MILLER, DARREL L., Visiting Assistant Professor (Marketing), 1989
B.A.; M.A., Ph.D., Univesity of Florida, 1979
MILLER, KAREN L., Associate In (Pediatrics), 1975
B.A., Cedar Crest College, 1970
MILLER, KATHLEEN, Instructor (Nursing), 1988
B.S.N.; M.S.N., University of Florida, 1986
MILLER, MARGARET A., Professor-Director (Visual Arts), 1970
B.A.; M.A., University of Hawaii, 1970
MILLER, RANDY E., Instructor (Mass Communications), 1989
B.A.; M.A., Texas Tech University, 1984
MILLER, SHARON G., Visiting Assistant Professor (Psychiatry), 1979
B.A.; M.S.W., Carleton University, 1974
MILLER, THOMAS L., Assistant in Research (Civil Engineering and Mechanics), 1988
B.S.Ed.; M.Ed.; Ph.D., Michigan State University, 1978
MILLER, WILLIAM A., Assistant Professor (Industrial and Management System Engineering), 1987
B.S.M.E.T., M.Ed., M.S.I.E., Ph.D., Clemson University, 1987
MILLIKEN, DEAN M., Associate Director - Instructor (Florida Institute of Oceanography), St. Petersburg Campus, 1973
A.B.; M.A., University of South Florida, 1975
MITCHELL, MOZELLA G., Associate Professor (Religious Studies), 1981
A.B.; M.A.; M.A.; Ph.D., Emory University, 1980
MODROW, WILLIAM G., Assistant Professor (Finance), 1963
B.A., M.S., Texas A & M University, 1963
MOFFITT, KAREN A., Visiting Associate Professor (Psychiatry), 1983
B.A., M.A., Ph.D., University of South Florida, 1982
MOHNEY, DAVID A., Assistant In (Educational Leadership and Higher Education), 1970
B.A., Anderson College, 1961
MOLTENO, CHRISTOPHER D., Visiting Assistant Professor (Pediatrics), 1988
M.B., Ch.B; D.C.H.; M.Med.; F.C.P.; M.D.; B.A., B.A.; Ph.D., University of Cape Town, South Africa, 1986
MONGKUO, MAURICE Y., Assistant Professor (Public Administration), 1989
B.A.; M.P.I.A., Ph.D., University of Pittsburg, 1989
MONROE, ANNETTA Y., Associate Professor (Music Arts), 1973
B.M., Oberlin College Conservatory of Music, 1963
MONTROSE, BRUCE E., Assistant In (Engineering), 1989
B.A.; M.S., University of South Florida, 1989
MOODY, LINDA E., Professor (Nursing), 1990
R.N.; B.S.N., M.N., Ph.D.; M.P.H., University of North Carolina, 1983
MOON, JAMES E., Associate Professor (Accounting), 1983
B.S., M.A., Ph.D., University of Alabama, 1970
MOORE, BEVERLY K., Assistant In (Pediatrics), 1988
B.S.N.; M.S.N., Medical College of Georgia, 1980
MOORE, HARVEY A., Associate Professor (Sociology), 1974
B.A.; M.S.; Ph.D., Case Western Reserve University, 1972
MOORE, JACK B., Professor-Chairperson (American Studies), 1962
B.A.; M.A.; Ph.D., University of North Carolina, 1963
MOORE, JAMES A., Assistant Professor (Graduate Architecture Program), 1988
B.S., M.S.; M.S., Ph.D., University of Pennsylvania, 1987
MOORE, JANET S., Assistant Professor (Fine Arts), 1989
B.M.; M.M., Ed.D., University of North Carolina, 1984
MOORE, JOHN D., Associate Professor - Chairperson (Humanities), New College of USF, 1980
A.B.; A.M., Ph.D., Stanford University, 1969
MOORE, JUDY Visiting Assistant In (College Administration, Education), 1985
MOORE, KATHLEEN M., Academic Administrator (Academic Affairs), 1990
B.A.; M.S.; Ph.D., University of South Florida, 1990
MOORE, MARVIN L., Academic Administrator (Institute on Black Life), 1990
B.A.; Ph.D., University of North Carolina-Greensboro, 1988
MOORE, STEPHEN B., Instructor (Information Systems and Decision Sciences), 1976
B.A., M.B.A., University of South Florida, 1976
MOORE, SUZANNE R., Academic Administrator (Arts & Sciences), 1990
B.A., University of South Florida, 1989
MOORHEAD, JOHN B., Visiting Assistant Professor (Music), 1987
B.A.; M.M., Northwestern University, 1979
MORAWSKI, ANDRZEJ, Visiting Associate Scholar/Scientist (Engineering), 1990
M.S.; Ph.D., Institute of Physics, Polish Academy of Science, 1972
MOREHOUSE, LAWRENCE, Assistant Professor (Political Science), 1985
B.A.; M.A., Cornell University, 1980
MOREL, DON L., Professor (D.A.R.P.A.), 1989
B.S., Ph.D.; M.B.A., Rutgers University, 1979
MOREL, JORGE G., Assistant Professor (Public Health), 1987
B.A.; M.S.; M.S., Iowa State University, 1987
MORELLI-ROBBINS, MARLENE, Visiting Assistant In (FMHI), 1989
B.S., M.S., Duquesne University, 1980
MORENO, WILFRIDO A., Assistant In (D.A.R.P.A.), 1990
B.S.; M.S., University of South Florida, 1985
MORMINO, GARY R., Professor (History), 1977
B.A.; M.A., Ph.D., University of North Carolina, 1977
MORRILL, JOHN B., Professor (Natural Sciences), New College of USF, 1975
B.A.; M.S.; Ph.D., Florida State University, 1958
MORRIS, ANN D., Visiting Instructor (International Language Institute), 1990

A.A.; B.A.; M.A., University of South Florida, 1980

MORRIS, DANIEL J., Visiting Assistant Professor (Internal Medicine), 1989
A.B.; M.D., University of Pittsburgh, 1981

MORRIS, WILLIAM E., Professor (English), 1964
B.A., M.A.; Ph.D., University of North Carolina, 1957

MORSE, STEVEN S., Associate Professor (Radiology), 1988
B.S.; M.D., State University of New York Downstate Medical Center, 1977

MOSCINSKI, LYNN C., Assistant Professor (Pathology), 1988
B.S., M.D., University of Wisconsin, Milwaukee, 1981

MOTTA, PHILIP J., Assistant Professor (Biology), 1987
B.S.; Ph.D., University of Hawaii, 1980

MOTTO, ANNA L., Professor - Chairperson (Classics), 1973
B.A.; M.A.; Ph.D., University of North Carolina, 1953

MOXLEY, JOSEPH M., Associate Professor (English), 1984
B.A., B.A.; M.A., Ph.D., State University of New York at Buffalo, 1984

MOYSE, WILLIAM F., Lecturer (Mass Communications), 1971
B.A., M.A., University of South Florida, 1976

MUELLER, O. THOMAS, Visiting Assistant Professor (Pediatrics), 1987
B.A.; Ph.D., Pennsylvania State School of Medicine, 1978

MUFFLY, KARL E., Assistant Professor (Anatomy), 1988
B.S., M.S., Ph.D., University of Nebraska Medical Center, Omaha, 1984

MUKHERJEA, ARUNAVA, Professor (Mathematics), 1969
B.Sc., M.Sc.; Ph.D., Wayne State University, 1967

MUKHERJEE, PRITISH, Assistant Professor (Physics), 1988
B.Sc., M.Sc.,; M.A., Ph.D., State University of New York at Buffalo, 1986

MULLER, PAMELA, Professor (Marine Science Program), 1982
B.S., SUNY College at Cortland, 1966

MULLER-KARGER, FRANK E., Assistant Professor (Marine Science), St. Petersburg Campus, 1988
B.S.; M.S.; Ph.D., University of Maryland, 1988

MULLINS, JAMES O., Assistant In Research (Marine Science), 1986

MULLINS, JOHN B., Visiting Program Director (Law and Mental Health), 1990
B.A., B.S., Florida State University, 1972

MULLINS, LARRY C., Chairperson-Professor (Gerontology), 1980
B.A., M.A.; M.Phil., Ph.D., Yale University, 1978

MUMME, ROY I., Acting Dean-Assistant Professor (Psychological and Social Foundations), Ft. Myers Campus, 1966
A.B., A.M.; M.Ed., University of North Carolina, 1953

MUNOZ, MARISOL, Visiting Instructor (FMHI), 1990
B.A., M.A.; M.S., Florida State University, 1988

MURPHY, R. JERRY Associate Professor (Civil Engineering and Mechanics), 1984
B.S.C.E.; M.C.E., Ph.D., University of Oklahoma, 1971, P.E.

MURRAY, WILLIAM M., Associate Professor (History), 1982
B.A.; Ph.D., University of Pennsylvania, 1982

MURTAGH, F. REED, Professor (Radiology), 1983
B.A.; M.D., Temple University School of Medicine, 1971

MUSHINSKY, HENRY R., Associate Professor (Biology), 1979
B.S.; M.S.; Ph.D., Clemson University, 1973

MUSSELMAN, DALE O., Visiting Assistant Professor (Physics), 1990
B.S.; M.S.; Ph.D., Purdue University, 1989

MYERS, CARMEN L., Academic Administrator (Lakeland Center), 1988
B.A.; M.Ed.; Ph.D., Florida State University, 1980

MYERSON, MARILYN, Associate Professor - Program Director (Interdisciplinary Social Science), 1973
B.A.; M.A., Ph.D., State University of New York at Buffalo, 1976

NAAR, DAVID F., Assistant Professor (Marine Science), St. Petersburg Campus, 1990
B.A.; M.S., Ph.D., University of California-San Diego, 1989

NAGERA, HUMBERTO, Professor-Director (Psychiatry), 1987
B.Sc.; M.D., University of Havana, 1952

NAGLE, R. KENT, Associate Professor (Mathematics), 1976
B.S., M.A., Ph.D., University of Michigan, 1975

NAKANO, YASUNOBU, Visiting Research Associate (Medical Microbiology and Immunology), 1990
M.D., Jichi Medical School, 1979

NAYLOR, WILLIAM C., Associate Professor (Computer Science and Engineering), 1987
B.S., M.S.; M.S., Ph.D., University of Wisconsin, 1971

NAZIAN, STANLEY J., JR., Associate Professor (Physiology), 1979
B.S.; Ph.D., Marquette University, 1977

NELSEN, HARVEY W., Professor (Interdisciplinary Social Science), 1972
B.A.; M.A.; Ph.D., George Washington University, 1972

NELSON, CARNOT E., Professor (Psychology), 1971
B.S.; Ph.D., Columbia University, 1966

NELSON, DOUGLAS L., Professor (Psychology), 1967
B.A.; M.A., Ph.D., University of Wisconsin, 1967

NELSON, LOUIS R., Director (Laboratory Animal Medicine), Associate Professor (Medical Microbiology), 1971
B.S.; M.S.; D.V.M., Auburn University, 1955

NELSON, MARIE W., Assistant Professor (Curriculum and Instruction), 1988
B.A.; M.Ed., Ed.D., University of Georgia, Athens, 1981

NELSON, ROBERT P. JR., Assistant Professor (Medicine), St. Petersburg Campus, 1988
B.A., M.D., Indiana University School of Medicine, 1980

NEMCHONOK, IRENE, Visiting Assistant Professor (Languages), 1990

NESBITT, ROBERT E., Visiting Professor (Obstetrics/Gynecology), 1990
B.A., M.D., Vanderbilt University, 1947

NESMAN, MARJORIE P., Counselor/Advisor (Student Personnel Office, Education), 1969
B.S., Michigan State University, 1952

NESS, GENE C., Professor (Biochemistry), 1974
B.S.; Ph.D., University of North Dakota, 1971

NESS, THOMAS E., Associate Dean-Professor (Marketing), 1971
A.B.; B.S.E.; M.S.I.A., Ph.D., Purdue University, 1968

NETTERFIELD, THEODORE A., Associate In (Engineering), 1988
B.S.; M.S., University of South Florida, 1988

NEUGAARD, EDWARD J., Professor (Languages), 1964
B.A.; M.A., Ph.D., University of North Carolina, 1964

NEUMANN, MARK A., Assistant Professor (Communication), 1990
B.A.; M.S., Ph.D., University of Utah, 1990

NEUSNER, JACOB, Graduate Research Professor (Religious Studies), 1990
B.A.; PhD., Columbia University, 1960

NEVILLE, DONALD D., Professor (Childhood Education), 1972
B.S., M.Ed.; Ed.D., University of Florida, 1961

NEVILLE, TINA M., Instructor/Librarian (Library), St. Petersburg Campus, 1981
B.A.; M.A., University of South Florida, 1989

NEWCOMBE, P. JUDSON, Professor (Communication), 1970
B.A.; M.A., Ph.D., Northwestern University, 1963

NEWKIRK, PATRICIA M., Instructor (Pediatrics), 1978
B.S., M.S., University of Florida, 1978

NEWKOME, GEORGE R., Vice President, Research - Professor (Office of Research) 1986
B.S., Ph.D., Kent State University, 1966

NEWMAN, JOHN R., Visiting Assistant Professor (Humanities), 1990
B.A., PhD., University of Wisconsin, 1987

NEWTON, CATHERINE A., Associate In Research (Medicine), 1981
B.S.; M.S., East Carolina University, 1978

NICKELS, BRADLEY J., Associate Professor (Visual Arts), 1970
B.D.; M.A., Ph.D., University of Indiana, 1966

NICOLOSI, GREGORY R., Associate Vice President (Health Sciences), Associate Professor (Physiology), 1972
B.S.; M.B.A.; Ph.D., Ohio State University, 1971

NICOSIA, SANTO V., Professor (Pathology), 1984
M.C.; M.S.; M.D., Catholic University of Sacred Heart School of Medicine and Surgery, Rome, Italy, 1967

NIENHAUS, HARRY A., Associate Professor (Electrical Engineering), 1967
B.S., M.S., University of St. Louis, 1964

NIXDORF, JAMES C., Counselor/Advisor (Business Administration), 1984
B.S.B.A.; B.A., M.A., University of North Florida, 1980

NIXON, ROBERT L., Associate Professor (Management), 1977
B.S.; M.S.; M.P.A., Ph.D., Cornell University, 1976

NOBLE, CLAUDIA J., Coordinator (Fine Arts), 1987
B.A.; M.A., M.F.A., Florida State University, 1977

NOCITA, BRUCE W., Assistant Professor (Geology), 1984
B.S.; M.S.; Ph.D., Louisiana State University, 1986

NOLAN, MICHAEL F., Associate Professor (Anatomy), 1975
B.S.; Ph.D., Medical College of Wisconsin, 1975

NOONAN, JOHN D., Associate Professor (Classics), 1975
B.A.; M.A., Ph.D., Columbia University, 1973
NORD, HEINZ J., Professor (Internal Medicine), 1973
M.D., University of Frankfurt and Freiburg Medical Schools, 1964
NORD, WALTER R., Professor (Business), 1989
B.A.; M.S.; Ph.D., Washington University, 1967
NORTHCUTT, SUSAN S., Associate Professor (Social Sciences), 1969
B.A.; M.A.; Ph.D., Indiana University, 1970
NORTHCUTT, TRAVIS J., JR., Dean *Emeritus*-Professor (Social Science Office), 1972
B.S., M.S., Ph.D.; M.P.H., University of North Carolina, 1959
NORVELL, NANCY K., Visiting Associate Professor (FMHI), 1989
B.A.; M.S., Ph.D., Virginia Commonwealth University, 1984
NOSS, CHARLES I., Associate Professor (Public Health), 1984
B.A.; Sc.M., Sc.D., Johns Hopkins University, 1983,
NOVAK, DONALD A., Assistant Professor (Pediatrics), 1987
B.S.; M.D., University of South Florida, 1981
OBERSTE-VORTH, RALPH, Assistant Professor (Mathematics), 1989
B.A., M.A.; Ph.D., Cornell University, 1987
O'BRIEN, WILLIAM F., Professor (Obstetrics and Gynecology), 1983
A.B.; M.D., New York University School of Medicine, 1974
OCHSHORN, JUDITH, Professor (Interdisciplinary Social Science), 1969
B.A.; M.A.; Ph.D., The Union Graduate School, 1978
OESTREICH, TERENCE M., Academic Administrator (Chemistry), 1988
B.A.; Ph.D., University of Florida, 1973
OGDEN, JOHN C., Director (Florida Institute of Oceanography), St. Petersburg Campus, 1988
A.B.; Ph.D., Stanford University, 1968
O'GRADY, MAUREEN P., Visiting Assistant Professor (Medicine), 1989
B.A.; M.A., Ph.D., University of California, 1986
OHAEGBULAM, FESTUS U., Professor (Afro-American Studies), 1972
B.A.; M.A.; Ph.D., University of Denver, 1967
OKOGBAA, GEOFFREY O., Associate Professor (Engineering), 1989
B.S.I.S.E., M.S.; Ph.D., University of Cincinnati, 1983
OLANOW, CHARLES W., Professor (Neurology), 1986
M.D., University of Toronto, 1965
OLDER, SHARON E., Visiting Instructor (FMHI), 1990
B.A., M.A., West Virginia University, 1986
OLINE, LARRY W., Professor (Civil Engineering and Mechanics), 1967
B.A.; B.S.; M.S.; Ph.D., Georgia Institute of Technology, 1968, P.E.
OLIVER, JANELLE, Visiting Research Associate (Anatomy), 1990
B.S., Indiana University, 1975
OLLIFF, CHARLEEN B., Acting Academic Administrator (Educational Measurement-Research), Ft. Myers Campus, 1989
B.A.; M.A., University of South Florida, 1985
OLSEN, EUGENE D., Professor (Chemistry), 1964
B.S., Ph.D., University of Wisconsin, 1960
OLSON, GARY A., Associate Professor (English), 1985
B.A.; M.A.; Ph.D., Indiana University of Pennsylvania, 1980
OLSSON, RAY A., Professor (Internal Medicine), 1976
M.D., George Washington University School of Medicine, 1956
O'MALLEY, REBECCA M., Associate Professor (Chemistry), 1976
B.Sc., Ph.D., University of Sheffield, England, 1970
O'NEILL, MICHAEL S., Capt., Assistant Professor (Military Science), 1990
B.A., Eastern New Mexico University
ONO, SEIGO, Visiting Associate Professor (Pediatrics), 1989
M.D., Kagoshima University, 1972
ORLOSKY, DONALD E., Professor-Chairperson (Educational Leadership, Education), 1969
A.B.; M.S., Ed.D., Indiana University, 1959
ORR, MARK T., Professor-Director (Interdisciplinary Social Science), 1966
A.B., Ph.D., University of North Carolina, 1954
ORRU, MARCO, Assistant Professor (Sociology), 1987
M.A., Ph.D., University of California at Davis, 1984
ORTINAU, DAVID J., Associate Professor (Marketing), 1979
B.S.; M.S.; Ph.D., Louisiana State University, 1979
OSBLEBO, GARY R., Capt., Assistant Professor (Military Science)
B.S., Norwich University
O'SHIELDS, JOY A., Director (Engineering), 1989
A.B.; M.S.; Ed.D., Loyola University, 1980
OSNES, PAMELA G., Visiting Assistant Professor (Child and Family Studies, FMHI), 1968
B.S.; M.A., West Virginia University, 1981
O'SULLIVAN, PETER B., Professor (Theatre), 1963
B.A., M.A., University of North Carolina, 1957
OTT, RUTH A., Coordinator (Academic Advising), Sarasota Campus, 1975
B.A., M.A., University of South Florida, 1982
OTTANELLI, M. FRASER, Visiting Assistant Professor (History), 1987
Ph.D., Syracuse University, 1987
OTTO, RANDY, Visiting Assistant Professor (FMHI), 1989
B.A.; M.S., Ph.D., Florida State University, 1987
OWEN, CHARLES R., JR., Associate Professor (Music), 1981
B.M.; M.A., California State University, 1979
OWEN, PETER T., Capt, Assistant Professor (Military Science)
B.S., University of Houston, 1980
OWEN, TERENCE C., Professor (Chemistry), 1964
B.Sc., Ph.D., University of Manchester, England, 1964
OWEN, WILLIAM D., Professor (Music Arts), 1964
B.M.; M.M., North Texas State University, 1960
PACIGA, JUNE E., Associate In Research (Pathology), 1978
B.S., University of Illinois, 1972
PALLS, TERRY L., Associate Professor (Humanities), New College of USF, 1973
B.A.; M.A., Ph.D., University of Kansas, 1974
PALMA, CARLA, Research Associate (Medicine), 1989
Ph.D., University of Rome, Italy, 1986
PALMIERI, NICHOLAS V., Visiting Instructor (Crime and Delinquency, FMHI), 1988
B.A.; M.Ed., Pennsylvania State University, 1976
PAMIES, RUBENS, Assistant Professor (Medicine), 1989
B.S.; M.D., State University of New York, 1986
PANACEK-HOWELL, LUANNE J., Instructor-Assistant Chairperson (Child and Family Studies, FMHI), 1981
B.A., M.A., University of South Florida, 1985
PANDO, JOSEPH R., Acting Associate Director - Instructor (Florida Center For Urban Design and Research), 1987
B.A.; M.S. Arch., Columbia University, 1985
PANTHER, EDWARD E., Professor-Coordinator (Counselor Education), 1969
B.S., M.S., Ed.D., State University of New York at Buffalo, 1969
PAPENHAUSEN, PETER R., Visiting Assistant Professor (Pediatrics), 1988
B.S.; Ph.D., New York University, 1974
PAPPAS, GEORGE, Professor (Visual Arts), 1966
B.S., M.A., Ed.D., Pennsylvania State University, 1957
PAPPAS, JAMES L., Dean-Professor (Business Administration), 1986
B.S., M.S., Ph.D., University of California, Los Angeles, 1968
PARADISE, LOIS J., Associate Professor (Medical Microbiology), 1973
A.B.; M.S., Ph.D., University of Michigan, 1960
PARKER, DOROTHY F., Visiting Coordinator (Public Health), 1988
B.S.; M.H.S., Johns Hopkins School of Hygiene and Public Health, 1977
PARKER, KEITH A., Associate Professor (History), 1966
B.A.; M.A., Ph.D., University of Maryland, 1965
PARKHILL, CHARLES L., Lecturer (GraphicStudio), 1990
A.A.; M.A.; M.F.A., University of Utah, 1975
PARKS, JOHN, Assistant Professor (Fine Arts), 1989
PARRINO, BOB N., Counselor/Advisor (Counseling Center for Human Development, Student Affairs), 1982
B.A., M.A., Ph.D., University of South Florida, 1981
PARRINO, DONNA P., Academic Administrator (University Libaries), 1981
A.B.; M.A., Florida State University, 1967
PARROTT, MARY E., Associate Professor (Mathematics), 1979
B.S., M.S.; Ph.D., Memphis State University, 1979
PARROTT, WILLIAM H., Associate Professor (Accounting), 1976
B.A., M.Accy., Ph.D., University of Illinois, 1971
PARSON, OLIVER J., Counselor/Advisor (Undergraduate Studies), 1988
B.A.; M.A., New Mexico Highlands University, 1972
PARSONS, ANNA K., Assistant Professor (Obstetrics/Gynecology), 1989
B.S.; M.D., University of Michigan, 1981

PARSONS, MICHAEL T., Associate Professor (Obstetrics/Gynecology), 1989
B.S.; M.D., Wayne State Medical School, 1977
PASTOR, K., Visiting Scholar/Scientist (D.A.R.P.A.), 1989
M.S., Ph.D., Warsaw University, 1978
PATERSON, JAMES F., Assistant In (Pathology), 1978
B.A., De Paul University, 1976
PAUL, JAMES L., Chairperson-Professor (Exceptional Childhood Education), 1988
A.B., M.A.; M.A.; Ed.D., Syracuse University, 1967
PAUL, JOHN H., Associate Professor (Marine Science), 1983
B.A.; Ph.D., University of Miami, Florida, 1980
PAUL, MARIA T., Visiting Instructor (Education), 1989
B.A.; M.Ed., Harvard University, 1985
PAULSON, DARRYL G.,Associate Professor (Political Science), St. Petersburg Campus, 1974
B.A.; M.S., Ph.D., Florida State University, 1975
PAVAN, MARY H., Visiting Assistant Professor (Pediatrics), 1981
A.B.; M.D., Harvard Medical School, 1972
PAVAN, PETER R., Assistant Professor (Ophthalmology), 1981
A.B., M.D., Harvard Medical School, 1972
PAWLOWSKI, ROBERT S., Professor (English), 1983
B.A.; M.A.; Ph.D., University of Denver, 1968,
PAYNE, A. DAVID, Associate Professor (Communication), 1988
B.A., M.A.; Ph.D., University of Iowa, 1982
PEDERSEN, JOHN F., Assistant Professor (Mathematics), 1988
B.A.; M.S., Ph.D., Emory University, 1984
PEEBLES, DONNA M., Visiting Assistant In (Marketing), 1990
B.S., M.B.A., University of South Florida, 1989
PEEK, GREGORY J., Visiting Assistant In (Business), 1990
B.A.; M.B.A., University of South Florida, 1990
PENCEV, DOBROMIR, Visiting Assistant Professor (Internal Medicine), 1990
B.S., M.D., Philipps University of Marburg, 1981
PENNER, LOUIS A., Professor-Chairperson (Psychology), 1969
B.A., M.A; Ph.D., Michigan State University, 1969
PEPPARD, VICTOR E.,Professor (Languages), 1975
B.A., M.A.; Ph.D., University of Michigan, 1974
PEREZ, KATHLEEN R., Visiting Instructor (Psychiatry and Behavioral Medicine), 1987
B.A., M.A., University of South Florida, 1983
PEREZ, LOUIS A., JR., Graduate Research Professor (History), 1970
B.A.; M.A.; Ph.D., University of New Mexico, 1970
PEREZ, RAFAEL A., Associate Professor (Computer Science Engineering), 1983
B.S.E.E.; M.S.E.E., Ph.D.E.E., University of Pittsburgh, 1973
PERKINS, EMILY T., Visiting Assistant Professor (Pediatrics), 1989
B.S.; M.D., University of South Florida, 1986
PETERS, ROGER H., Assistant Professor (Crime and Delinquency, FMHI), 1986
B.A.; M.S., Ph.D., Florida State University, 1986
PETERSON, DONOVAN D., Professor (Educational Leadership Education), 1968
B.S.; M.A.; Ph.D., University of Pittsburgh, 1970
PETRIMOULX, JOHN J., Instructor (International Language Institute), 1984
B.G.S.; M.A.T.E.S.L., St. Michael's College, 1980
PETTEGREW, LOYD S., Professor (Communication), 1982
B.A.; M.A.; Ph.D., University of Michigan, 1977
PFEIFFER, ERIC A., Professor - Director (Suncoast Gerontology Center), 1978
A.B., M.D., Washington University, 1960
PFISTER, FRED C., Professor (Library, Media, and Information Studies Education), 1976
B.S.; M.Ed.; A.M.L.S., Ph.D., University of Michigan, 1970
PFOST, H. PHILIP, Associate Professor - Chairperson (Childhood Education), 1967
B.A., M.Ed.; Ed.D., George Peabody College, 1966
PHELPS, CHRISTOPHER P., Associate Professor (Anatomy), 1976
A.B.; Ph.D., Rutgers University, 1973
PHILLIPPY, STEVE W., Associate In (College Administration, Education), 1974
B.A., M.B.A., University of South Florida, 1974
PHILLIPS, E. RAY, Professor (Content Specializations, Education), 1971
B.S.; M.A.; Ph.D., Purdue University, 1971
PHUPHANICH, SURASAK, Assistant Professor (Neurology), 1983
B.Sc., M.D., Mahidul University, Thailand, 1975
PIEGL, LES, Assistant Professor (Engineering), 1989
M.Sc.; M.B.C.S.; Ph.D., Eotvos University, 1982
PIETRZYK, MICHAEL C., Visiting Assistant In (Civil Engineering & Mechanics), 1990
B.S.; M.S., Pennsylvania State University, 1977
PINKARD, CALVIN M., Associate Professor-Chairperson (Rehabilitation Counseling), 1964
A.B.; B.D.; M.A., Ph.D., University of Florida, 1959
PINKAS, HAIM, Assistant Professor (Internal Medicine), 1988
M.D., Free University of Brussels, 1976
PINKHAM, PATRICIA, Program Director (Public Health), 1989
D.V.M.; M.P.H., University of South Florida, 1989
PLATE, JEFFREY M., Capt., Assistant Professor (Aerospace Studies), 1991
B.A.; M.A., Golden Gate University, 1990
PLATT, JOHN S., Associate Professor - Visiting Program Director (Exceptional Child Education), 1988
B.S.; M.S., Ed.D., University of Kansas, 1976
PLAWECKI, JUDITH A., Dean-Professor (Nursing), 1987
B.S.; M.A., Ph.D., University of Iowa, 1974
POILEY, EILEEN F., Assistant In Research (Suncoast Gerontology Center), 1987
B.S.; M.S., Johns Hopkins University, 1986
POLITO, JOSEPHINE T., Associate Professor (Childhood Education), Ft. Myers Campus,1977
B.S.; M.S., Ph.D., Syracuse University, 1974
POLSON, JAMES B., Professor (Pharmacology), 1971
B.A., M.S., Ph.D., University of Missouri, 1968
POLZIN, STEVEN E., Assistant In Research (Engineering), 1988
B.S.C.E.E.; M.S.C.E., Ph.D., Northwestern University, 1986
POMERANCE, HERBERT H., Acting Chairperson-Visiting Professor (Pediatrics), 1984
B.S.; M.D., Columbia University of Physicians and Surgeons, 1941
PORTEIRO, JOSE L. F., Associate Professor (Mechanical Engineering), 1984
M.S., Ph.D., Rutgers University, 1980
PORTER, KATHY B., Assistant Professor (Obstetrics/Gynecology), 1987
B.S.; M.D., University of Louisville, 1981
PORTER, PHILLIP K. Associate Professor (Economics), 1985
B.S., M.S.; Ph.D., Texas A&M University, 1978
POTHOVEN, KENNETH L., Associate Professor-Chairperson (Mathematics), 1970
A.B.; M.A., Sp.A., Ph.D., Western Michigan University, 1969
POTTER, ROBERT L., Assistant Professor (Chemistry), 1984
B.A.; M.S., Ph.D., University of California, San Diego, 1979
POWELL, ROBERT W., Professor (Psychology), 1966
B.A.; M.A.; Ph.D., Florida State University, 1966
POWER, FRED B., Professor (Finance), 1964
B.S., M.Ed., University of Florida, 1964
POWERS, DANIEL S., Assistant Professor (Graduate Architecture Program), 1988
B.Arch., M.Arch., University of Florida, 1974
POWERS, PAULINE S., Professor (Psychiatry), 1975
A.B.; M.D., University of Iowa, 1971
POW-SANG, JULIO M., Assistant Professor (Surgery), 1988
M.D., Universidad Autonoma De Guadalajara, Mexico, 1978
POYTHRESS, NORMAN G., Associate Professor (Law & Mental Health, FMHI), 1990
B.A.; Ph.D., University of Texas at Austin, 1977
PRANGE, MARK, Visiting Assistant Professor (FMHI), 1988
B.A.; M.A., Ph.D., University of South Florida, 1987
PRENTICE, ANN E., Associate Vice President - Professor (Library, Special Programs) 1988
A.B.; M.L.S.; D.L.S., Columbia University, 1972
PRESTON, K.G., Associate Director-Instructor (Technological Transfer), 1990
B.S.; J.D., George Washington University, 1962
PRETO-RODAS, RICHARD A., Professor (Languages), 1981
B.A.; M.A.; M.A., Ph.D., University of Michigan, 1966
PRICE, JOEL M., Associate Professor (Physiology), 1976
B.F.A.; M.S.E.; Ph.D., University of California, San Diego, 1976

PRICE, LORINDA J., Assistant Professor (Pediatrics), 1979
B.S.; M.D., State University of New York, Upstate Medical Center, 1976
PRICE, PAMELA S., Visiting Instructor (Business), 1990
A.A.; B.A., M.S., University of South Florida, 1980
PRICE, WILLIAM T., Instructor (Professional Physical Education), 1983
B.A., M.A., University of South Florida, 1972
PRIDE, RICHARD F., Associate Professor (Educational Leadership, Education), Program Director (Upward Bound), 1969
B.A.; M.A., Ed.S., Columbia University, 1956
PRINCE, FRED L., Associate Professor (Content Specializations, Education), 1971
B.S., M.S., Ed.D., University of Houston, 1971
PROBES, CHRISTINE M., Associate Professor (Languages), 1983
B.A.; Ph.D., Tulane University, 1968
PROCKOP, LEON D., Professor-Chairperson (Neurology), 1973
B.A.; M.D., University of Pennsylvania, 1959
PROSS, SUSAN, Visiting Assistant Professor (Medical Microbiology), 1985
B.S.; Ph.D., University of Pennsylvania, 1975
PUGLISI, DICK J., Assistant Dean-Professor (Content Specialization, Education), 1969
B.A., M.A.; Ph.D., Georgia State University, 1973
PURDOM, DANIEL M., Professor (Educational Leadership, Education), 1968
B.A., M.A.; Ed.D., University of California, Los Angeles, 1967
PYTLINSKI, BONNIE L., Visiting Assistant Professor (Languages), 1990
B.A.; M.A.; Ph.D., University of Florida, 1982
QUINN, SUSAN, Associate In Research (Medicine), 1989
B.A., M.L.S., SUNY at Buffalo, 1977
QUINTERO, SOCORRO, Assistant Professor (Business), 1989
B.S.; M.S.; Ph.D., University of Texas, 1989
RABER, DOUGLAS J., Professor (Chemistry), 1970
A.B.; Ph.D., University of Michigan, 1968
RADFORD-CURRY, BLANCHE, Visiting Assistant Professor (Social Sciences), 1989
B.A.; M.A., Ph.D., Brown University, 1979
RAHM, DIANNE, Assistant Professor (Political Science), 1990
B.A., M.A.; M.S.; Ph.D., Syracuse University, 1989
RAJ, BALAIBAIL A., Associate Professor (Psychiatry), 1979
M.B.B.S., Madras Medical College, India, 1972
RALSTON, YVONNE L., Director (Lakeland Center), 1982
B.A., M.A.; Ed.D., University of Mississippi, 1974
RAMACHANDRAN, KANDETHODY M., Assistant Professor (Mathematics), 1987
B.Sc., M.Sc.; Ph.D., Brown University, 1987
RANELLS, JUDITH D., Visiting Assistant Professor (Pediatrics), 1989
B.A., M.D., Howard University, 1979
RANGANATHAN, N., Assistant Professor (Engineering), 1988
B.E.; Ph.D., University of Central Florida, 1988
RANSDELL, SARAH E., Assistant Professor (Psychology), 1990
B.A.; M.S., Ph.D., University of Florida, 1987
RAO, A.N.V., Professor (Mathematics), 1972
B.S.; M.S.; M.S., Ph.D.; Ph.D., Virginia Polytechnic Institute and State University, 1972
RAO, PAPINENI S. Professor (Obstetrics/Gynecology), 1979
B.V.Sc.; M.S., Ph.D., University of Missouri, 1965
RAO, UNDARU R., Associate in Research (Public Health), 1988
B.Sc.; M.Sc.; D.H.E., Ph.D., Bombay University, 1988
RASCH, JOHN D., Professor (Rehabilitation Counseling), 1978
B.A., M.R.C.; M.S.S.W., Ph.D., University of Wisconsin, 1977
RATENSKY, ALEXANDER, Professor-Director (Graduate Architecture Program), 1987
B.A.; M. Arch., Princeton University, 1972
RATHER, BRUCE C., Visiting Instructor, Division of Programs (FMHI), 1990
B.A.; M.A., Loyola College, 1987
RATLIFF, JOHN L., Associate Professor (Civil Engineering and Mechanics), 1969
B.S., M.S.; Ph.D., Wayne State University, 1966
RATTI, JOGINDAR S., Professor (Mathematics), 1967
B.S., M.S.; Ph.D., Ohio State University, 1969
RAUSCH-MEDIA, JESSICA G., Visiting Assistant Professor (Medicine), 1989
B.A.; M.D., University of Buenis Aires, 1977
RAWDIN, JANIS, Academic Administrator (University Computing Services), 1989
B.A., University of Pittsburg, 1978
READER, WILLIE D., Professor (English), 1963
A.B., M.A.; Ph.D., University of Florida, 1962
READING, ANTHONY J., Professor-Chairperson (Psychiatry), 1975
M.D.; M.P.H., Sc.D., Johns Hopkins University, 1964
REARICK, MARTHA N., Professor (Music Arts), 1963
B.M., M.M., University of Michigan, 1961
RECK, JACQUELINE L., Instructor (Business), 1989
B.S.; B.S., University of South Florida, 1988
REDDING, BARBARA A., Associate Professor (Nursing), 1975
B.S.; M.S.N.; Ed.D., University of Florida, 1982
REED, JAMES H., Associate Professor (Mathematics), 1963
B.A.; M.A., Ph.D., University of Maryland, 1969
REED, JANE G., Program Director (Undergraduate Studies), 1969
B.A.; M.A., University of Maryland, 1962
REED, MARY D., Visiting Assistant In (Child & Family Studies, FMHI), 1990
B.A.; M.S., University of South Florida, 1983
REESE, CRAIG E., Professor (Accounting), St. Petersburg Campus, 1989
B.A.; M.B.A.; Ph.D., University of Texas, 1979
REGIS, HUMPHREY A., Associate Professor (Mass Communications), 1989
B.A.; M.A.; Ph.D., Howard University, 1983
REILLY, MAUREEN A., Visiting Assistant In (Engineering), 1990
B.S., B.A., Rollins College, 1986
REINERSMAN, PHILIP N., Associate In Research (Natural Sciences), 1989
B.S.; M.A., Ph.D., University of South Florida, 1988
REINTREN, DOUGLAS S., Assistant Professor (Surgery), 1987
B.A., M.D., Duke University Medical School, 1979
REITHEL, BRIAN J., Visiting Lecturer (Business), 1990
B.A.; M.B.A., Texas Tech University, 1988
REJNIAK, LYNN M., Associate In (Engineering), 1987
B.A., University of South Florida, 1983
RELLER, PAUL H., Assistant Professor (Music), 1990
B.A.; M.A., Ph.D., Eastman School of Music, 1990
REMMEL, RANDALL J., Visiting Lecturer (Information Systems and Decision Sciences), 1988
B.S.; M.B.A.; Ph.D., Ohio State University, 1983
RENNELLS, MARY SUE, Visiting Assistant In (Institute for At-Risk Education), 1989
B.S., M.Ed.; Ph.D., University of North Carolina, 1988
REYNOLDS, DAVID G., Professor - Director (Surgery), 1987
B.A.; M.S.; Ph.D., University of Iowa, 1963
REYNOLDS, JERALD M., Associate Professor (Music Arts), 1966
B.A.; M.M., University of Oregon, 1963
RHODIN, JOHANNES A. G., Professor-Chairperson (Anatomy), 1979
B.A.; M.D., Ph.D. Karolinska Institute, Stockholm, Sweden, 1954
RICH, THOMAS A., Professor - Chairperson (Gerontology), 1961
B.A., M.A., Ph.D., University of Florida, 1957, S.M.Hyg.
RICHARDS, DAVID W., Assistant Professor (Ophthalmology), 1990
B.A.; Ph.D.; M.D., University of Miami, 1976
RICHARDS, IRA S., Assistant Professor (Public Health), 1986
B.S.; M.S.; Ph.D., New York University, 1976
RICHARDSON, WILLIAM R., Professor (Surgery), 1979
A.B.; M.D., Harvard Medical School, 1944
RICHMOND, JOHN W., Assistant Professor (Music), 1987
B.S.; M.M.; Ph.D., Northwestern University, 1990
RICHMOND, ROLLIN C., Dean & Professor (Arts &Sciences), 1990
A.B.; Ph.D., The Rockefeller University, 1971
RIDDLE, RONALD W., Associate Professor (Humanities), New College of USF, 1975
A.B.; M.A.; Ph.D., University of Illinois, 1975
RIDLEY, MARION B., Assistant Professor (Medicine), 1989
B.A.; M.D., University of Tennessee, 1982
RIGGIN, ONA Z., Professor (Nursing), 1977
B.S.; M.Ed.; Ed.D., Memphis State University, 1976
RIGGS, CARL D., Vice President *Emeritus*, Professor-Director (Center For Math Excellence), 1971
B.S., M.S., Ph.D., University of Michigan, 1953
RIGGS, CARL D., JR., Assistant Professor (Pediatrics), 1986
B.S.; M.D., University of South Florida, 1981

RIGOS, PLATON N., Associate Professor (Politcal Science), 1976
B.A.; M.A.; Ph.D., Michigan State University, 1974

RISCILE, GISELE R., Visiting Assistant Professor (Pediatrics), 1990
B. A., M.D., University of South Florida, 1984

RITTER, JUDITH A., Visiting Assistant In (College Administration, Education), 1987

RITTERMAN, STUART I., Professor (Communication Sciences and Disorders), 1969
B.A.; Ph.D., Case Western Reserve University, 1968, C.C.C.

RIVARD, RICHARD J., Associate Professor (Finance), 1977
B.S.; M.S., Ph.D., Texas A & M University, 1978

ROBBINS, FRANK R., Visiting Assistant Professor (FMHI), 1989
B.A.; Ph.D., Florida State University, 1989

ROBBINS, LISA L., Assistant Professor (Geology), 1988
B.S.; Ph.D., University of Miami, 1987

ROBERTS, CLEORA S., Assistant Professor (Social Work), 1987
A.B.; M.S.W.; Ph.D., Georgia State University, 1986

ROBERTS, RANDAL J., Counselor/Advisor (Student Personnel, Education), 1988
B.A., M.A., University of South Florida, 1986

ROBERTS, WILLIAM S., Associate Professor (Obstetrics and Gynecology), 1982
A.B.; M.D., New Jersey Medical School, 1976

ROBINSON, BRUCE E., Associate Professor (Internal Medicine), 1981
B.S.; M.D., University of South Florida, 1975

*ROBINSON, GERALD G., Professor (Biology), 1960
B.S., Ph.D., University of Minnesota, 1960

ROBINSON, JACK H., Professor (Measurement and Research, Education), St. Petersburg Campus, 1963
B.S.; M.A.; Ed.D., Harvard University, 1960

ROBINSON, SANDRA W., Associate Professor (Dance), 1982
B.F.A., North Carolina School of the Arts, 1970

ROBISON, JOHN O., Associate Professor (Music), 1977
B.A.; M.A., D.M.A., Stanford University, 1975

ROETZHEIM, RICHARD G., Assistant Professor (Medicine), 1988
B.A., M.D., University of Illinois, 1985

ROGERS, DARRYL E., Capt., Assistant Professor (Aerospace Studies), 1990
B.S.; M.S., University of Arkansas, 1989

ROGERS, J. PATRICK W., Professor and Eminent Scholar (English), 1986
B.A.; M.A., Ph.D., Litt.D.; D.Litt., University of Bristol, England, 1986

ROHRBACK, SUSAN B., Academic Administrator (Education), 1987
B.A., M.B.A., Florida Institute of Technology, 1985

ROLF, CAROL J., Assistant Vice President (Provost's Office, Academic Affairs), 1974
B.A., M.B.A., University of South Florida, 1982

ROMEO, JOHN T., Professor (Biology), 1977
B.A.; M.S.; Ph.D., University of Texas at Austin, 1973

ROO, VIRGINIA S., Coordinator (Public Administration), 1983
B.A., M.A., University of South Florida, 1977

ROOT, ALLEN W., Professor-Associate Chairperson, (Pediatrics), 1973
A.B.; M.D., Harvard Medical School, 1958

ROSE, JOAN B., Assistant Professor (Public Health), 1989
B.S., M.S., Ph.D., University of Arizona, 1985

ROSE, MOLLY A., Assistant Professor (Nursing), 1990
B.S.N.; M.S.N.; Ph.D., Temple University, 1990

ROSEL, NATALIE E., Associate Professor (Social Sciences), New College of USF, 1975
B.A., M.A., Ph.D., Indiana University, 1971

ROSEMURGY, ALEXANDER S. II, Associate Professor (Surgery), 1984
B.S.; M.D., University of Michigan, 1979

ROSS, MARK A., Visiting Assistant Professor (Civil Engineering and Mechanics), 1987
B.S.E., M.S.E.; Ph.D., University of Florida, 1988

ROSS, MARY C., Visiting Assistant Professor (Nursing), 1990
B.S.N., M.S.N.; Ph.D., University of Texas, 1983

ROSS, WILLIAM T., Professor-Chairperson (English), 1970
B.A.; M.A., Ph.D., University of Virginia, 1970

ROSSELLI, HILDA C., Visiting Coordinator - Instructor (Exceptional Child Education), 1985
B.A.; M.A., University of South Florida, 1981

ROTH, DEBORAH C., Visiting Assistant Professor (Psychiatry), 1982,
A.B.; D.O., College of Osteopathic Medicine and Surgery, 1973

ROTH, PAUL F., Lecturer (Bi-County Center For Engineering), Sarasota Campus, 1987
B.S., M.S.E., University of Pennsylvania, 1965

ROUSE, MARYANNE M., Instructor (Accounting), Director (Professional and Management Development Center), 1971
B.A.; M.B.A., University of South Florida, 1974

ROWE, JOHN W., Professor (Economics), 1979
B.S., M.S., Ph.D., University of Illinois, 1966

ROWLANDS, DAVID T., Professor - Chairperson (Pathology), 1982
M.D., School of Medicine, University of Pennsylvania, 1955

RUAS, ERNESTO J., Assistant Professor (Cancer Education), 1987
B.A.; M.D., Johns Hopkins University, 1980

RUBIN, STEVEN J., Professor (English), 1969
B.A.; M.A., Ph.D., University of Michigan, 1969

RUFFIN, PATRICIA, Assistant Professor (Social Sciences), 1989
B.A.; M.A., Ph.D., New School, 1986

RUGS, DEBORAH J., Visiting Assistant Professor (Epidemiology & Policy Analysis, FMHI), 1990
B.A.; M.A., Ph.D., Northern Illinois University, 1989

RUNDUS, DEWEY J., Associate Professor (Computer Science and Engineering), 1972
B.S.; Ph.D., Stanford University, 1970

RUPPEINER, GEORGE, Associate Professor (Natural Sciences), New College of USF, 1982
B.S.; Ph.D., Duke University, 1980

RUSSELL, BARBARA S., Visiting Instructor (FMHI), 1988
B.S.H.S.A.; M.P.H., University of Miami, 1987

RUSSELL, WALLACE A., Professor (Psychology) 1982
B.S., M.A.; Ph.D., State University of Iowa, 1949

RUTENBERG, DANIEL, Professor (Humanities), 1964
A.B., M.A.; Ph.D., University of Florida, 1967

RUTZ, BETH H., Assistant In Research (Child and Family Studies, FMHI), 1987
B.A., St. Leo College, 1982

RYAN, DANIEL J., Visiting Instructor (New College of USF), 1990
B.A.; M.A., Yale University, 1990

SABA, HUSSAIN I., Professor (Internal Medicine), 1975
M.D.; Ph.D., University of North Carolina School of Medicine, 1970

SABA, SABIHA, Associate Professor (Pathology), 1979
M.D., Darbhanga Medical College, India, 1963

SACCO, WILLIAM P., Associate Professor (Psychology), 1979
B.A.; M.S., Ph.D., Florida State University, 1979

SACKETT, WILLIAM M., Graduate Research Professor (Marine Science), 1979
A.B., Ph.D., Washington University, 1958

SAENZ, ARMANDO, Visiting Associate Professor (Psychiatry), 1990
B.A.; M.D., University of Texas, Southwestern Medical School, 1963

SAFF, DONALD J., Professor-Director (GraphicStudio), 1965
B.A.; M.A.; M.F.A.; Ed.D., Columbia University, 1964

SAFF, EDWARD B., Graduate Research Professor (Mathematics), 1969
B.S.; Ph.D., University of Maryland, 1968

SAGUES, ALBERTO A., Associate Professor (Civil Engineering and Mechanics), 1985
Ph.D., Case Institute of Technology, 1972, P.E.

SAHLIN-HUGHES, KAREN E., Visiting Assistant Professor (Internal Medicine), 1990
B.A., M.D., University of South Florida, 1987

SAIZ, MICHAEL T., Assistant Professor (Internal Medicine), 1988
B.S.; M.D., University of New Mexico, 1979

SALAZAR, DIEGO R., Visiting Instructor (Community Mental Health, FMHI), 1990
B.S., M.P.H., Ph.D., University of South Florida, 1990

SALEH, RAMY A., Visiting Assistant Professor (Pediatrics), 1989
M.D., Alexandria Facility of Medicine, 1977

SALTER, SYLVIA, Coordinator, Center for Academic Advising (Undergraduate Studies), 1984
B.S.; M.Ed., North Carolina State University, 1982

SAMUELS, DAVID J., Instructor (Anesthesiology), 1990
B.A.; M.D., University of South Florida, 1986

SANDLER, JACK, Professor (Psychology), 1969
B.A., M.S.; Ph.D., Florida State University, 1969

SANFORD, EDGAR J., Assistant Professor (Medicine), 1988
B.A., M.D., Duke University, 1965

SANKAR, RAVI, Assistant Professor (Electrical Engineering), 1985
B.E.; M.Eng.; Ph.D., Pennsylvania State University, 1985
SANOCKI, THOMAS A., Assistant Professor (Psychology), 1986
B.S.; Ph.D., University of Wisconsin, Madison, 1986
SAPORTA, SAMUEL, Associate Professor (Anatomy), 1977
B.A.; Ph.D., University of Southern California, 1973
SARMIENTO, CYNTHIA D., Lecturer (Computer Science Engineering), 1984
B.S.; M.S., Case Institute of Technology, 1976
SASSO-MASON, JUDITH E., Counselor/Advisor, St. Petersburg Campus, 1988
B.A.; M.F.A., University of South Florida, 1982
SAUNDERS, MARY J., Associate Professor (Biology), 1986
B.A.; M.S., Ph.D., University of Massachusetts, 1982
SAURO, MARIE D., Associate In (Pharmacology & Therapeutics), 1989
B.S.; Ph.D., University of South Florida, 1989
SAVIELLO, GEORGE M., Visiting Associate Professor (Anesthesiology) 1988
B.S., M.D., Northwestern University, 1967
SAWAI, SHIRLEY K., Visiting Instructor (Medicine), 1989
B.S.; B.S., M.D., University of South Florida, 1985
SAXON, SUE V., Professor (Gerontology), 1963
B.S., M.S., Ph.D., Florida State University, 1963
SCAGLIONE, JANET, Assistant Professor (Adult and Vocational Education), 1987
B.A., M.A., University of South Florida, 1981
SCHALEMAN, HARRY J., JR., Associate Professor (Geography), St. Petersburg Campus, 1969
B.S.; M.A., University of Cincinnati, 1963
SCHAPIRA, DAVID V., Associate Professor (Cancer Education), 1987
M.B. Ch.B., Dundee University, Scotland, 1974
SCHAPIRA, NANCE B., Associate In Research (Gerontology Center), 1987
M.A., Dundee University, Scotland, 1971
SCHARF, JOHN E., Instructor (Anesthesiology), 1990
B.S.; M.D., Medical College of Virginia, 1986
SCHATZ, DAVID R., Associate Professor (Humanities), New College of USF, 1975
B.A.; M.A.; Ph.D., University of Michigan, 1982
SCHEFFLER, TOWNER B. Assistant Professor (Chemistry), 1985
B.A.; Ph.D., University of Mississippi, 1984,
SCHENCK, DAVID P., Acting Dean-Professor, Sarasota Campus, 1974
B.A.; M.A.; Ph.D., Pennsylvania State University, 1971
SCHEUERLE, JANE W., Professor (Communication Sciences and Disorders), 1971
B.S., B.A.; M.S.; M.A.; Ed.D., Nova University, 1975
SCHEUERLE, WILLIAM H., Dean (Undergraduate Studies, Academic Affairs), Professor (English), 1964
B.A.; M.A.; Ph.D., Syracuse University, 1964
SCHILIT, WARREN K. Associate Professor (Management), 1985
B.A.; M.B.A., Ph.D., University of Maryland, 1982
SCHMIDT, PAUL J., Professor (Pathology), 1981
B.S.; M.S.; M.D., New York University, 1953
SCHNEIDER, RAYMOND J., Professor (Communication), 1968
A.B.; Ph.L.; M.A.; S.T.L.; Ph.D., University of Michigan, 1965
SCHNEIDER, S.L., Assistant Professor (Psychology), 1988
B.S., M.S., Ph.D., University of Wisconsin, 1989
SCHNELLER, STEWART W., Professor-Chairperson (Chemistry), 1971
B.S., M.S; Ph.D., Indiana University, 1968
SCHNITZLEIN, HAROLD N., Professor (Anatomy), 1973
A.B.; M.S., Ph.D., St. Louis University, 1954
SCHOCKEN, DOUGLAS D., Associate Professor (Internal Medicine), 1981
B.A., M.D., Duke University, 1974
SCHONFELD, LAWRENCE I., Associate Professor-Assistant Chairperson, (Aging and Mental Health, FMHI), 1980
B.A.; M.A.; Ph.D., University of South Florida, 1981
SCHONWETTER, RONALD S., Assistant Professor (Medicine), 1989
B.S.; M.D., University of South Florida, 1984
SCHOPPMAN, JOHN D., Assistant In Research (Obstetrics and Gynecology), 1987
B.A., Marquette University, 1977
SCHRODER, HAROLD M., Professor - Director (Management), 1973
B.A.; M.A., Ph.D., Ohio State University, 1954
SCHROER, KENNETH R., Associate Professor (Pathology), 1988
M.D., Washington University, St. Louis, 1973
SCHURR, SANDRA, Coordinator-Associate Professor (Education), 1988
B.A., M.A., Ph.D., Nova University, 1985
SCHWAB, RICHARD E., Assistant Professor (Radiology), 1986
B.A.; M.D., University of Michigan Medical School, 1973
SCHWABLE, CONRAD A., Visiting Lecturer (GraphicsStudio), 1990
SCHWANDT, RENEE C., Assistant in Research (Medicine), 1989
B.S., M.S., North Dakota State University, 1989
SCHWARTZ, ARTHUR L., Professor (Finance), St. Petersburg Campus, 1982
B.B.A., M.B.A.; Ph.D., University of Oregon, 1975
SCHWARTZ, CAROLE J., Instructor (Childhood and Language Arts Education), 1970
B.A.; M.S.; Ph.D., University of Texas At Austin, 1984
SCOTT, BONNIE K., Counselor/Advisor (Academic Support), Ft. Myers Campus, 1982
B.A., University of South Florida, 1985
SCOTT, LINUS A., Professor (Energy Conversion and Mechanical Design), 1964
B.S.M.E., M.S.E.; Ph.D., Case Institute of Technology, 1960, P.E.,
SCOURTES, CHRISTINE C., Counselor/Advisor (Educational Leadership and Higher Education), 1973
B.A.; M.A., University of South Florida, 1973
SCRUGGS, CHARLES E., Professor (Languages), 1972
B.A.; M.A., Ph.D., University of Kentucky, 1968
SCUDDER, PAUL H., Associate Professor (Natural Sciences), New College of USF, 1978
B.S.; Ph.D., University of Wisconsin, 1977
SEAR, ALAN M., Associate Professor (Public Health), 1987
B.S., M.S.; Ph.D., Purdue University, 1971
SEARLS, EVELYN F., Associate Dean - Professor (Childhood Education), 1974
B.Ed., M.Ed., Ed.D., University of Miami, Florida, 1971
SEEMAN, JOHN P., Visiting Lecturer (Engineering Technology),1990
B.S., University of South Florida, 1987
SELEZNICK, MITCHEL J., Assistant Professor (Internal Medicine), 1986
B.S.; M.D., State University of New York Downstate Medical Center, 1979
SELLECK, CYNTHIA S., Visiting Assitant Professor (Nursing), 1987
B.S.N.; M.S.N.; D.S.N., University of Alabama at Birmingham, 1987
SELLERS, CHRISTINE S., Assistant Professor (Criminology), 1990
B.A.; M.A.; Ph.D., University of Florida, 1987
SEN, RAJAN, Associate Professor (Civil Engineering and Mechanics), 1984
B.T.; M.A.Sc.; Ph.D., State University of New York at Buffalo, 1984, P.E.
SEROW, ELIZABETH G., Program Director (Public Health), 1988
B.A., M.A., Ph.D., University of Virigina, 1985
SEYBOLD, CATHERINE A., Visiting Instructor (International Language Institute), 1990
A.A.; B.A., University of South Florida, 1987
SHAH, CHUNILAL P., Assistant Professor (Radiology), 1981
M.B.B.S., Topiwala National Medical College, 1968
SHAH, SHIRISH C., Visiting Assistant Professor (Pediatrics), 1981
M.B.B.S., Medical College Baroda, India, 1975
SHANKS, BRADLEE A., Assistant Professor (Visual Arts), 1986
B.F.A.; M.F.A., Arizona State University, 1986
SHANNON, ROBERT F., Associate Professor (Economics), 1966
B.S.; M.B.A.; Ph.D., University of Illinois, 1966
SHANNON, ROGER, Professor (Physiology), 1974
B.A., Ph.D., University of Kentucky, 1970
SHAPIRO, ARTHUR S., Professor (Educational Leadership and Higher Education), 1982
B.A., M.A., Ph.D., University of Chicago, 1965
SHARMA, PRAMOD K., Visiting Assistant Professor (Physicis), 1990
B.S., M.S.; Ph.D., Indian Institute of Technology, 1987
SHATANOFF-SOLC, HELAINE, Assistant In Research (Diabetes Center), 1981
B.A.; M.S., University of Houston, 1981
SHAW, KAILIE R., Associate Professor (Psychiatry), 1974
J.M.B.; M.D., University of Cape Town Medical School, 1966

SHEA, WILLIAM M., Professor (Religious Studies), 1980
B.A.; Ph.D., Columbia University, 1974
SHEEHAN, DAVID V. Professor (Psychiatry), 1985
B.A.O., M.B., B.Ch., University College Dublin Medical School, 1970,
SHEEHAN, KATHLEEN A., Visiting Assistant Professor (Psychiatry and Behavioral Medicine), 1987
B.A.; M.S.; Ph.D., Brandeis University, 1985
SHEEHAN, MICHAEL, Visiting Assistant Professor (Psychiatry and Behavioral Medicine), 1987
M.B. Bch. Bao., University College Dublin, National University of Ireland, 1977
SHEKHTMAN, BORIS, Associate Professor (Mathematics), 1986
M.S.; Ph.D., Kent State University, 1980
SHELLEY, SUE A, Associate Professor (Pathology), 1978
B.A.; M.S., Ph.D., Loyola University of Chicago, 1974,
SHENEFELT, PHILIP D., Assistant Professor (Internal Medicine), 1987
B.S., M.S., M.D., University of Wisconsin, Madison, 1970
SHEPHERD, DAVID C., Professor (Communication Sciences and Disorders), 1972
B.A., M.A.; Ph.D., Syracuse University, 1962
SHEPPARD, HAROLD L., Professor-Director (Gerontology), 1983
B.A.; M.A.; Ph.D., University of Wisconsin, 1948
SHERMAN, BARBARA R., Associate Provost-Associate Professor (Academic Affairs), 1977
A.B.; A.M.; M.B.A.; Ph.D., University of Michigan, 1973
SHERMAN, MARK R., Visiting Instructor (Management), 1986
B.A.; L.L.B.; L.L.M., London School of Economics, 1981
SHERMAN, RONALD A., Director (Arts and Sciences), 1979
B.A., University of South Florida, 1974
SHERMAN, SUZANNE E., Assistant Professor (Natural Sciences), New College of USF, 1989
B.S.; Ph.D., Massachusetts Institute of Technology, 1987
SHILOH, AILON, Professor (Anthropology), 1973
B.A.; M.A.; Ph.D.; M.A.R., Yale University, 1980
SHIMOJI, YUTAKA, Assistant Professor (Physics), 1990
B.A., M.A., Ph.D., University of South Florida, 1989
SHIVELY, JOHN A., Visiting Associate Dean-Professor (Pathology), 1988
B.A., M.D., Indiana University, 1946
SHOWS, E. WARREN, Professor (Economics), 1964
B.B.A., M.B.A, Ph.D., Georgia State University, 1968
SHRADER-FRECHETTE, KRISTIN S., Graduate Research Professor (Philosophy), 1987
B.A.; Ph.D., University of Notre Dame, 1971
SHULMAN, DOROTHY I., Assistant Professor (Pediatrics), 1985
B.A.; M.D., University of Kansas, 1978
SIDOWSKI, JOSEPH B., Professor (Psychology), 1969
B.A.; M.S., Ph.D., University of Wisconsin, 1956
SIEBEL, JERRY D., Associate Professor (Accounting), 1976
B.B.A., M.S., Ph.D., University of Iowa, 1967, C.P.A.
SIEWART, REGINA C., Academic Administrator (Academic Affairs), 1988
B.A.; M.B.A., The American University, 1984
SILBERT, EDWARD M., Associate Dean (Arts and Sciences), Associate Professor (History), 1965
B.S.; M.A.; Ph.D., University of Florida, 1966
SILBIGER, MARTIN L., Professor - Chairperson (Radiology), 1973
A.B.; M.D., Western Reserve University, 1962
SILLIMAN, ELAINE R., Professor (Communicology), 1987
B.S.; Ph.D., City University of New York, 1976
SILVEIRA, LUIS H., Assistant In (Internal Medicine), 1990
M.D., LaSalle University, Mexican School of Medicine, 1981
SILVER, ARCHIE A., Professor (Psychiatry), 1978
B.S., M.D., New York University College of Medicine, 1940
SILVER, BRUCE S., Professor (Philosophy), 1971
B.A., M.A., Ph.D., University of Colorado, 1971
SILVER, MARGARET G., Visiting Assistant Professor (Pediatrics), 1989
B.A.; M.D., University of Washington, 1980
SILVER, STARR E. Assistant Professor (Epidemiology & Policy Analysis, FMHI), 1985
B.A., M.A., Ph.D., University of Florida, 1983
SILVER, SUSAN L., Visiting Instructor/Librarian (University Library), 1990
B.S., M.L.S., Southern Connecticut State University, 1985
SILVER, WARREN S., Professor (Biology), 1970
B.S., M.S.; Ph.D., Johns Hopkins University, 1953
SILVERMAN, IRA J., Professor (Criminology), 1972
B.A.; M.A., Ph.D., Ohio State University, 1970
SILVERMAN, MITCHELL, Professor (Criminology), 1968
B.A.; M.S.; Ph.D., Ohio State University, 1968
SILVERMAN, STUART H., Assistant Dean-Professor (Undergraduate Studies), 1970
B.B.A.; M.S., Ph.D., Yeshiva University, 1971
SIMMONS, ROBERT O., Assistant Professor (Political Science), 1990
B.S.; M.A., Ph.D., University of Michigan, 1987
SIMON, JOSEPH L., Professor (Biology), 1963
B.S.; M.S., Ph.D., University of New Hampshire, 1963
SINCICH, TERRY L., Assistant Professor (Information Systems and Decision Sciences), 1988
B.S.; M.S., Ph.D., University of Florida, 1980
SINGH, SURENDRA P., Professor (Exceptional Child Education), 1967
B.A., M.A.S.; Ed.D., University of California, Los Angeles, 1967
SINNOTT, JOHN T., Associate Professor (Internal Medicine), 1983
B.S.; M.A.; M.D., University of Alabama, 1978
SIPIORA, PHILLIP, Assistant Professor (English), 1985
B.A.; M.A.; Ph.D., University of Texas at Austin, 1985
SISSON, REBECCA A., Assistant Professor (Nursing), 1990
A.O.N.; B.S.N.; M.S.N; Ph.D., University of Texas at Austin, 1979
SISTRUNK, FRANCIS, Professor (Psychology), 1965
B.A.; M.S., Ph.D., University of Miami, Florida, 1963
SIZEMORE, RUSSELL F., Assistant Professor (Humanities), New College of USF, 1986
A.B.; M.A.R.; M.A., Ph.D., Harvard University, 1987
SKINNER, JOHN H., Assistant Dean-Associate Professor (Public Health), 1984
B.S.; M.S., Ed.D., Columbia University Teachers College, 1974
SLACK, KAREN A., Instructor (Anesthesiology), 1990
M.D., Universidad Javeriana, 1983
SLATER, ROBERT T., Assistant In (Engineering), 1988
B.A., Michigan State University, 1986
SLIDER, DARRELL, Associate Professor (Interdisciplinary, Social Sciences), 1981
B.A.; M.A., M.Phil., Ph.D., Yale University, 1981
SMILLIE, DAVID, Professor (Social Sciences), New College of USF, 1975
B.A.; M.A.; Ph.D., Cornell University, 1953
SMITH, AARON A., Associate Professor (Social Work), 1988
B.A.; M.S.W.; M.P.H.; Ph.D., University of California, San Francisco, 1984
SMITH, CARLOS A., Professor - Acting Chairperson (Chemical Engineering), 1972
B.S.; M.S., Ph.D., Louisiana State University, 1972
SMITH, CHARLES D., Professor (Professional Physical Education, Education), 1967
B.S.; M.A.; Ed.D., Temple University, 1967
SMITH, DANIEL B., Assistant Professor (Anesthesiology), 1988
B.A.; M.D., University of South Florida, 1984
SMITH, DAVID H., Professor (Comprehensive Medicine), 1976
B.S.; M.A.; Ph.D., Ohio State University, 1966
SMITH, DONALD A., Assistant Professor (Surgery), 1988
B.A.; M.D., University of Vermont, 1980
SMITH, ELTON E., Professor (English), 1961
B.S.; M.A.; B.D.; Ph.D., Syracuse University, 1961, D.D. (Hon.)
SMITH, HENRIETTA M. Associate Professor (Library Media and Information Studies, Education), 1985
B.A.; B.S.L.S., M.S.L.S.; Ed.D., University of Miami, Florida, 1975
SMITH, JACK L., Professor (Accounting), 1969
B.B.A.; M.S., Ph.D., University of Mississippi, 1969, C.P.A.
SMITH, J. JEROME, Associate Professor (Anthropology), 1972
B.A.; M.A., Ph.D., University of Arizona, 1972
SMITH, JOHN L., JR., Dean - Professor (Fine Arts), 1972
B.M.E.; M.M.E.; D.M.A., University of Missouri, 1979
SMITH, JUDITH H., Visiting Assistant In (Microbiology), 1987
B.S.; M.S., University of South Florida, 1984
SMITH, JUEL H., Director (Institute on Black Life), 1974
B.A.; M.A., Ed.S., Ph.D., University of South Florida, 1987
SMITH, KENNETH T., Visiting Associate Professor (Adult & Vocational Education), 1990
B.S.; M.Ed.; Ed.D., University of Northern Colorado, 1972
SMITH, LINDA G., Instructor, (Criminology), 1989
B.A., B.A., University of South Florida, 1983

SMITH, PHILIP L., Associate Professor-Chairperson (Social Work), 1975
B.S.; M.S.W., University of Georgia, 1968

SMITH, ROBERT A., Visiting Director-Assistant Professor (Medicine), 1989
B.A., M.S., University of North Florida, 1984

SMITH, ROBERT L., Visiting Instructor (Exceptional Child Education), 1990
B.A.; M.S., Northern Illinois University, 1979

SMITH, WILLIAM A., Professor-Acting Chairperson (Mechanical Engineering), 1966
B.S.M.E.; M.S., Ph.D., University of Florida, 1966

SNIDER, ARTHUR D., Professor (Electrical Engineering), 1970
B.S.; M.A.; Ph.D., New York University, 1971

SNOOK, JANICE B., Associate Professor (Interdisciplinary Social Sciences), 1968
A.B.; M.S.; Ph.D., University of Maryland, 1969

SNYDER, KAROLYN J., Professor (Educational Leadership and Higher Education), 1983
B.A.; M.Ed.; Ed.D., Texas Technical University, 1977

SNYDER, LEE D., Professor (Social Science), New College of USF, 1975
B.A.; M.A.; M.Div.; Ph.D., Harvard University, 1966

SNYDER, ROBERT E., Professor (American Studies), 1980
B.A., M.A.; Ph.D., Syracuse University, 1980

SNYDER, WALTER S., Assistant Professor (Industrial and Management Systems, Engineering), 1981
B.A.; M.B.A., M.S.E., Ph.D., University of South Florida, 1984

SOHN, KISANG, Assistant Professor (Gerontology), 1987
B.A.; M.S.W., Florida State University, 1982

SOLOMON, DAVID A., Professor (Internal Medicine), 1976
B.S., M.D., University of Maryland School of Medicine, 1969

SOLOMON, PAUL J., Professor-Chairperson (Marketing), 1986
B.S.B.A., M.B.A.; Ph.D., Arizona State University, 1974

*SOLOMONS, T. W. GRAHAM, Professor (Chemistry), 1960
B.S.; Ph.D., Duke University, 1959

SOLOMONSON, LARRY P., Professor-Chairperson (Biochemistry), 1976
B.A.; Ph.D., University of Chicago, 1969

SOMMERS, JUDY G., Program Director (Public Health), 1984
B.A., M.B.A., University of South Florida, 1988

SPARKS, AMY J., Professor - Chairperson (Humanities), 1968
B.A., M.A.; Ph.D., Louisiana State University, 1964

SPECTER, STEVEN C., Associate Professor (Medical Microbiology), 1979
B.A., Ph.D., Temple University, 1975

SPECTOR, BARBARA, Associate Professor (Content Specializations, Education), 1985
B.A., M.S., C.A.S., Ph.D., Syracuse University, 1977

SPECTOR, PAUL E., Professor (Psychology), 1981
B.A., M.A., Ph.D., University of South Florida, 1975

SPEER, DAVID C., Associate Professor (Aging and Mental Health, F.M.H.I), 1988
B.A., M.A., Ph.D., University of Minnesota, 1966

SPELLACY, WILLIAM N., Professor - Chairperson (Obstetrics and Gynecology), 1988
B.A., B.S., M.D., University of Minnesota, 1959

SPENCE, JAMES G., Associate Professor (Economics), Ft. Myers Campus, 1975
B.S., M.A., Ph.D., University of Oklahoma, 1979

SPIEGEL, PHILLIP G., Professor (Orthopaedic Surgery), 1978
B.A., M.D., Northwestern University, 1960

SPIELBERGER, CHARLES D., Graduate Research Professor (Psychology), 1972
B.S.; B.A., M.A., Ph.D., University of Iowa, 1954

SPIERS, ALEXANDER S. D., Professor (Cancer Education), 1987
M.D., University of Melbourne, 1960

SPILLMAN, CAROLYN V., Associate Professor (Childhood and Language Arts Education), Ft. Myers Campus, 1977
A.B.; M.Ed., Ph.D., University of North Carolina, Greensboro, 1972

SPROLES, H. ALLAN, Associate Professor (Exceptional Child Education), 1971
B.S.; M.Ed., Ed.D., University of Georgia, 1973

SPURGIN, DALE D., Lecturer (Physics), 1972,
B.S.; M.A., University of South Florida, 1972

STACH, JOSEPH, Visiting Professor-Director (Micro Electronics), 1988
B.S.; M.S., Ph.D., Pennsylvania State University, 1966

STAFFORD, JOHN W., Associate Professor (Geography), 1969
B.S., M.S.; M.A.; Ph.D., Michigan State University, 1971

STAMPS, MIRIAM B., Associate Professor (Marketing), 1982
B.A.; M.B.A.; Ph.D., Syracuse University, 1982

STAMPS, SPURGEON M. D., Special Assistant to the President, Professor (Interdisciplinary Social Sciences), 1982
B.S.; M.A., Ph.D., Washington State University, 1974

STANFORD, ROSE MARY, Assistant Professor (Criminology), Ft. Myers Campus, 1985
B.A., M.A.; Ph.D., Florida State University, 1984

STANKO, JOSEPH A., Associate Professor (Chemistry), 1973
B.S.; Ph.D., University of Illinois, 1966

STARK, WILLIAM R., Associate Professor (Mathematics), 1978
B.S.; Ph.D., University of Wisconsin, 1975

STEELE, CHRISTOPHER L., Associate Professor (Theatre), 1979
B.A.; M.F.A., Southern Methodist University, 1979

STEFANAKOS, ELIAS K. Professor - Chairperson (Electrical Engineering), 1985
B.S., M.S., Ph.D., Washington State University, 1969

STEINER, H. EDWIN, JR., Associate Dean - Professor (College Administration, Education), 1969
B.S., M.A.; Ph.D., University of Texas, 1970

STELZMAN, RAINULF A., Professor (Languages), 1963,
DIPL. I; DIPL. II., Dr. Phil., University of Freiburg, 1953

STENMARK, DAVID E., Professor (Psychology), 1977
B.A.; Ph.D., University of Alabama, 1969

STEPHENS, GERALD B., Lecturer (Fine Arts Events), 1981
B.A., M.A., Governors State University, 1972

STEPHENS, JUDITH K., Visiting Instructor (Obstetrics/Gynecology), 1990
M.D., Semmelweis University of Medicine, 1982

STEPHENS, SARAH J., Professor-Chairperson (Natural Sciences), New College of USF, 1975
B.S.; Ph.D., University of Texas, 1953

STEPHENS, WILLIAM L., Professor (Accounting), 1971
B.S., M.Acc., D.B.A., Florida State University, 1971 C.P.A.

STESLICKE, WILLIAM E. Associate Professor (Public Health), 1984
B.A.; M.A., Ph.D., University of Michigan, 1965

STESSEL, RICHARD I., Assistant Professor (Civil Engineering and Mechanics), 1985
B.A.; M.A., M.S., Ph.D., Duke University, 1983,

STEVENS, BRIAN, Graduate Research Professor (Chemistry), 1967
B.A., M.A., Ph.D., D.Sc., Oxford University, England, 1977

STEVENS, MARJORIE B., Visiting Research Associate (Adult & Vocational Education), 1990
A.B., M.A., Boston University, 1962

STEWARD, ROBERT G., Associate In Research (Marine Science Programs), 1984
B.S.; M.S., University of South Florida, 1981

STEWART, GREGORY J., Assistant Professor (Biology), 1985
B.S., M.S.; Ph.D., University of California at Davis, 1984

STEWART, MARK T., Chairperson-Professor (Geology), 1976
A.B.; M.S., M.S., Ph.D., University of Wisconsin, 1976

STILING, PETER D., Assistant Professor (Biology), 1990
B.S.; Ph.D., University of East Anglia, 1979

STIRLING, HAMILTON W., Lecturer (Information Systems Decision Sciences), St. Petersburg Campus, 1971
B.S.; M.B.A., Rutgers University, 1968

STOCK, JAMES R., Professor (Business), 1989
B.S., M.B.A.; Ph.D., Ohio State University, 1975

STOCKARD, JANET E., Visiting Instructor (Pediatrics), 1984
B.A., Boston University, 1969

STOCKWELL, HEATHER G., Associate Professor (Public Health), 1984
B.A., B.A.; M.Sc.; Sc.D., The Johns Hopkins University, 1983

STODDARD, KIM, Assistant Professor (Special Education), 1990
B.A.; M.A., Ph.D., University of Florida, 1988

STOKES, SANDRA J., Visiting Assistant In (Adult and Vocational Education), 1986
B.S., Mercer University, 1985

STOKES, TREVOR F. Professor-Program Director (Child and Family Studies, FMHI), 1985
B.A.; M.A., Ph.D., University of Kansas, 1977

STONE, DOUGLAS E., Professor (Measurement and Research Education), 1964
B.A., M.A., Ph.D., University of Chicago, 1962

STORY, COLEEN M., Associate Professor (Counselor Education), 1965
B.S., M.S., Florida State University, 1951

STOWERS, DEWEY M., JR., Professor (Geography), 1962
B.A.; M.A.; Ed.D., Duke University, 1961

STRANGE, JAMES F., Professor (Arts and Letters), 1972
B.A.; M.Div.; Ph.D., Drew University, 1970

STRANGE, WINIFRED, Professor (Communication Science and Disorders), 1982
B.A.; Ph.D., University of Minnesota, 1972

STRAUMFJORD, JON V., JR., Professor (Pathology), 1983
B.A.; M.S., M.D.; Ph.D., State University of Iowa, 1958

STRENGLEIN, DENISE D., Data Base Coordinator (University Computing, Services), 1970
B.A., M.A., University of South Florida, 1969

STRICKLAND, JOYCE M., Visiting Assistant In (Child & Family Studies, FMHI), 1987
B.A., University of Tampa, 1970

STROMQUIST, CARINE I., Visiting Assistant Professor, (Pediatrics), 1989
M.D., State University of Ghent, Belgium, 1982

STRONG, PASCHAL N., Professor (Psychology), 1966
A.B.; Ph.D., University of Tennessee, 1955

STUDNICKI, JAMES, Chairperson & Professor (Public Health), 1990
B.S.; M.B.A.; M.P.H., Sc.D., Johns Hopkins University, 1972

SUAREZ, DAWN M., Research Assistant In (Diabetes Center), 1985
B.A., M.P.H., University of South Florida, 1985

SUGIURA, KIKUYA, Associate In Research (Pediatrics), St. Petersburg Campus, 1987
B.S., M.S., D.V.M., Yamaguchi University, Japan, 1984

SUMMER, AVERILL V., Associate Professor (Music), 1973
B.A.; M.M., D.Mus., Indiana University, 1979

SUMMER, ROBERT J., III, Professor (Music Arts), 1973
B.S.; M.M., D.Mus., Indiana University, 1978

SUNDARAM, SWAMINATHA, Professor - Chairperson (Physics), 1982
B.Sc.; M.S.; Ph.D., D.Sc., Annamalai University, India, 1960

SUNOL, AYDIN K., Associate Professor (Chemical Engineering), 1982
B.S.; M.E., Ph.D., Virginia Polytechnic Institute and State University, 1982

SUTTON, TAMMIE L., Assistant In Education (Educational Research Center for Child Development), 1990
A.A.; B.A., University of South Florida, 1978

SWANSON, JAMES M., Associate Professor-Chairperson (History), 1964
B.A.; M.A.; Ph.D., Indiana University, 1968

SWANSON, RICHARD M., Associate Professor-Chairperson (Crime and Delinquency, FMHI), 1987
B.A.; M.A., Ph.D.; J.D., Denver University, 1985

SWARZMAN, JOYCE B., Associate Professor-Program Director, (SCATT Education), 1981
B.S.; M.A., M.S., Ed.D., Teachers College Columbia University, 1981

SWEETING, JAMES Jr., Coordinator (Educational Leadership and Higher Education), 1984
B.S.; M.S.; M.E.A., Pennsylvania State University, 1973

SWIHART, STEWART L., Associate Dean-Professor (Biology), 1970
B.A.; M.S., Ph.D., Lehigh University, 1964

SZABUNIO, MARGARET M., Visiting Assistant Professor (Radiology), 1990
B.A.; M.D., Hahnemann University Medical School, 1984

SZAKACS, JENO E., Professor (Cancer Education), 1986
M.D., University of Rome, 1951

SZENTIVANYI, ANDOR, Professor (Pharmacology and Therapeutics), 1970
M.D., University Medical School, Debrecen, Hungary, 1950

SZEPE, HELENA K., Assistant Professor (Visual Arts), 1990
B.A.; M.A., Ph.D., Cornell University, 1990

TALONE, JOHN W., Visiting Instructor (FMHI), 1989
B.A., University of South Florida, 1972

TANG, JIE-LIU, Associate in Research (Medicine), 1989
M.D.; Ph.D., Kyushu University, Japan, 1988

TAREN, DOUGLAS, Assistant Professor (Public Health), 1986
B.S., M.S.; Ph.D., Cornell University, 1986

TATUM, JIM C., Associate Professor (Languages), 1963
B.A.; M.A., Ph.D., Tulane University, 1968

TAYLOR, JUDY H., Visiting Assistant In (Pediatrics), 1984
B.S.N., University of Tampa, 1984

TAYLOR, RICHARD N., Associate Professor-Program Director (Philosophy), 1969
B.A.; B.D.; M.Phil., Yale University, 1969

TEBRUGGE, LYN C., Counselor/Advisor (Academic Services), 1983
B.S.; M.A., University of South Florida, 1976

TEDESCO, THOMAS A., Associate Professor (Pediatrics), 1974
B.S.; Ph.D., University of Pennsylvania, 1969

TEMTE, KNUTE P. Lecturer (Information Systems-Decision Sciences), 1985
B.S.; M.S., United States Naval Postgraduate School, 1962

TERRITO, LEONARD, Professor (Criminology), 1978
B.A., M.A.; Ed.D., Nova University, 1975

TERRY, ANNA M., Visiting Instructor (Psychiatry and Behavioral Medicine), 1986
B.A., M.A., University of South Florida, 1972

TESTRAKE, DIANE T., Professor (Biology), 1967
B.S.; M.A., Ph.D., Duke University, 1963

THARRINGTON, TOM, Instructor/Librarian (University Library), 1985
B.A.; M.A., University of South Florida, 1984

THERIAULT, MARGARET S., Counselor/Advisor (Undergraduate Studies), 1989
M.A., University of South Florida, 1989

THIELEKER, ERNEST A., Associate Professor (Mathematics), 1970
B.S.; M.S.; Ph.D., University of Chicago, 1968

THOMAS, CHRISTOPHER R., Associate Professor (Economics), 1982
B.S., Ph.D., Texas A&M University, 1980

THOMAS, DAPHNE L., Assistant Professor (Education), 1988
B.A.; M.S.W.; Ph.D., University of North Carolina, 1989

THOMAS, THOMAS N., Visiting Assistant Professor (Psychiatry), 1990
B.S.; M.S.; Ph.D.; M.D., Uniremitos Medical School, 1986

THOMPSON, J. KEVIN Associate Professor (Psychology), 1985
B.S.; M.A., Ph.D., University of Georgia, 1982

THOMPSON, MALLORY B., Associate Professor (Music), 1989
B.A., M.A.; Ph.D., University of Rochester, 1985

THOMPSON, ROBERT D., Associate In Research (Internal Medicine), 1987
B.S.; Ph.D., Brigham Young University, 1981

THOMPSON, TANA N., Visiting Assistant Professor (Business), 1989
B.S., M.B.A.; Ph.D., Georgia State University, 1989

THRUSH, DAVID N. Assistant Professor (Anesthesiology), 1985
A.B., M.D., West Virginia University, 1981

TIKRITI, GARY D., Visiting Lecturer (Economics), 1982
B.S.; M.A., University of South Florida, 1971

TIPPS, G. KELLY, Assistant Professor (History), 1969
B.A., M.A.; Ph.D., University of Colorado, 1971

TITTLE, MARY,Assistant Professor (Nursing), 1983
B.S.N., M.S.N., Ph.D., University of Florida, 1988

TOGIE, DAVID, JR., Lecturer (Mass Communications), 1978
B.A.; M.A., University of South Florida, 1978

TOKUTA, ALADE O. Assistant Professor (Computer Science and Engineering), 1985
B.S.E.E., M.S.E.E.; E.E.; Ph.D., University of Florida, 1984

TOMITA, YOSHIFUMI, Associate In Research (Pediatrics), St. Petersburg Campus, 198
B.Agri., M. Agri., D. Agri.; Ph.D., Kurume University, 1984

TONEY, JOHN F., Visiting Assistant Professor (Interal Medicine), 1986
B.S., M.D., Marshall University, 1981

TORRES, BENJAMIN A., Visiting Assistant In (Pediatrics), 1986
M.D., Universidad of San Carlos De Guatemala, 1982

TORRES, JOSEPH J., Professor (Marine Science), 1980
B.S.; M.A., Ph.D., University of California at Santa Barbara, 1980

TORRES, SARA, Assistant Professor (Nursing) 1988
B.S.N.; M.S.N.; Ph.D., University of Texas, Austin, 1986

TOSCANO, RAMON C., Assistant Professor (Medicine), 1989
B.A., M.D., Rutgers University, 1985

TREMMEL, WILLIAM C., Professor-Chairperson (Religious Studies), 1969
A.B.; Th.M., Th.D., Iliff School of Theology, 1950
TRICE, ISAIAH, Assistant Professor (Elective Physical Education, Education), 1970
B.S.; M.S., University of Colorado, 1961
TROTTI, ANDREA III, Assistant Professor (Radiology), 1988
B.S.; M.D., University of Florida, 1984
TROUTMAN, ANDRIA M., Professor-Coordinator (Computers In Education), 1971
B.S.; M.A.; Ed.D., University of Florida, 1971
TRUITT, WILLIS H., Professor (Philosophy), 1968
A.B.; A.M., Ph.D., Boston University, 1968
TSIBRIS, JOHN C., Professor (Medicine), 1988
B.S.; Ph.D., Cornell University, 1965
TSOKOS, CHRIS P., Professor (Mathematics), 1972
B.S., M.S.; Ph.D., University of Connecticut, 1968
TURNER, STEPHEN P., Graduate Research Professor (Sociology), St. Petersburg Campus, 1975
A.B., A.M., A.M., Ph.D., University of Missouri, 1975
TUTTLE, LESTER W., JR., Professor (Educational Leadership and Higher Education), 1964
B.A.E., M.A.E., Ed.D., University of Florida, 1962
TWIBLE, JACQUELYN L., Assistant Professor (Marketing), 1987
B.A., Ph.D.,University of Massachusetts, 1989
TYSON, IAN B., Professor (Radiology), 1984
B.S., M.B.Ch.B., University of Edinburgh, Scotland, 1956
TYSON, NANCY J., Associate Professor (English), 1984
B.A.; M.A., Ph.D., Ohio State University, 1981
UNDERBAKKE, MELVA E., Visiting Instructor (Extended Studies), 1988
B.A., M.A., Ph.D., University of South Florida, 1987
UPCHURCH, SAM B., Professor (Geology), 1974
A.B.; M.S., Ph.D., Northwestern University, 1970
UPTMOR, CLEMENS E., Lt. Col., Professor (Aerospace Studies), 1991
B.S.; M.S., Troy State University, 1984
VACHER, HENRY L., Associate Professor (Geology), 1983
B.S.; M.S., Ph.D., Northwestern University, 1971
VANCE, EARLE F., Assistant Director, University Research (Sponsored Research), 1984
B.A., State University of New York at Plattsburgh, 1974
VAN COTT, MARY LOU, Assistant Professor (Nursing), 1981
B.S., M.S.; Ph.D., University of Florida, 1989
VAN DERVENTER, STEPHANIE S., Visiting Program Director (Education), 1988
B.S., M.A., University of South Florida, 1988
VANDERFORD, MARSHA V., Associate Professor (Communication), 1981
B.A.; M.A., Ph.D., University of Minnesota, 1982
VAN DURME, DANIEL J., Assistant Professor (Family Medicine), 1989
B.A., M.D., University of South Florida, 1986
VAN NESTE, ROY J., Assistant Professor (History), 1971
B.A.; M.A., Ph.D., University of Wisconsin, 1972
VAN VLEET, EDWARD S., Professor (Marine Science), St. Petersburg Campus, 1979
B.S., B.A.; M.S.; Ph.D., University of Rhode Island, 1978
VAN VOORHIS, KENNETH R., Professor (Management), 1970
B.S., M.B.A., D.B.A., Louisiana State University, 1971
VANDEN, HARRY E., Professor (Political Science), 1975
B.A.; M.A.; Ph.D., The New School for Social Research, 1976
VARANASI, MURALI R., Professor-Chairperson (Computer Science and Engineering), 1980
B.S.; D.M.I.T.; M.S., Ph.D., University of Maryland, 1973
VARGO, GABRIEL A., Associate Professor (Marine Science), St. Petersburg Campus, 1979
B.S., M.S.; Ph.D., University of Rhode Island, 1976
VARGO, SANDRA L., Assistant Director-Instructor (Florida Institute of Oceanography), St. Petersburg Campus, 1980
B.S., M.S.; Ph.D., University of Rhode Island, 1974
VARLOTTA, DAVID, Assistant Professor (Anesthesiology), 1988
B.A.; D.O.M., New York College of Osteopathic Medicine, 1983
VASEY, FRANK B., Professor (Internal Medicine), 1977
B.A.; B.S.; M.D., University of Pennsylvania, 1968
VAVALA, THERESA V., Visiting Assistant In (Education), 1987
VAZ, KIM M., Assistant Professor (Interdisciplinary Social Science), 1990
B.A.; M.Ed.; Ph.D., Indiana University, 1990
VEGA, MANUEL, Associate Professor (Criminology), Sarasota Campus, 1965
B.S., M.S., Ph.D., Florida State University, 1964
VERKAUF, BARRY S., Associate Professor (Obstetrics and Gynecology), 1974
B.A.; M.D., Tulane University School of Medicine, 1965
VERMESS, MICHAEL Professor (Radiology), 1985
M.D., University of Vienna, 1958
VICKERY, ANN C., Associate Professor (Public Health), 1980
B.A., Ph.D., University of South Florida, 1980
VILLEME, MELVIN G., Program Director (Student Personnel), Professor (Educational Leadership Education), 1971
B.A.; M.A., Ed.S.; Ed.D., Nova University, 1975
VINCENT, ALBERT L., Associate Professor (Comprehensive Medicine), 1978
A.B.; M.A.; Ph.D., University of California, Los Angeles, 1976
VINCENT, CLARENCE E., Lecturer (Marketing), St. Petersburg Campus, 1983
B.S., M.B.A., D.B.A., Indiana University, 1961
VONTILLIUS, ERIC, Visiting Lecturer (GraphicsStudio), 1990
A.A.; B.F.A., University of South Florida, 1973
VOSS, ROSE M., Research Assistant In (Pediatrics), St. Petersburg Campus, 1986
B.S., M.S., San Diego State University, 1976
WADE, SALLY M., Visiting Instructor (Education), 1988
B.A.; M.Ed., University of Arkansas, 1979
WADE, THOMAS E. Associate Dean-Professor (Engineering), 1985
B.S.E.E., M.S.E.E., Ph.D., University of Florida, 1974
WAGNER, KATHLEEN, Visiting Coordinator (Medicine), 1989
B.S.N., University of Iowa, 1971
WALKER, JAMES G., Assistant Professor (Public Health), 1990
B.A.; M.S., J.D., Florida State University College of Law, 1978
WALKER, ROBERT, Assistant Professor (Medicine), 1989
B.S., M.D., Louisiana State University, 1984
WALLACE, PAMELA M., Visiting Assistant Professor (Pediatrics), 1989
B.A.; M.A.; Ph.D., Cornell University, 1988
WALLACH, PAUL M., Assistant Professor (Internal Medicine), 1987
B.A.; M.D., University of South Florida, 1984
WALSH, FRANK W., Visiting Assistant Professor (Medicine), 1989
M.D., Indiana University, 1981
WALSH, JOHN J., Graduate Research Professor (Marine Science, Program), St. Petersburg Campus, 1984
A.B.; M.S., Ph.D., University of Miami, 1969
WALSH, JOHN W., Assistant Professor (Internal Medicine), 1990
M.E., Indiana University School of Medicine, 1981
WALSH, RUTH M., Associate Professor (Management), 1969
A.B.; M.A.; Ph.D., University of South Florida, 1976
WALTHER, JOHN D., Assistant Professor (English), 1965
B.A., M.A.; Ph.D., Vanderbilt University, 1972
WALTZ, ALFRED J., Assistant Professor (Information Systems-Decision Sciences), 1979
B.S.; M.S., Georgia Institute of Technology, 1972
WANGENSTEEN, STEPHEN L., Professor (Surgery), 1987
B.A., B.S.; M.D., Harvard Medical School, 1958
WARD, JOHN C., Associate Professor-Associate Chairperson (Community Mental Health, FMHI), 1982
B.A., M.A., Ph.D., University of South Florida, 1981
WARD, WILLIAM B., Associate Professor (Public Health), 1987
B.A.; M.A., M.P.H., D.P.H., University of California, Berkeley, 1978
WARFIELD, NANCY R., Associate Professor (Music Arts), 1980
B.M.; M.M., Temple University, 1984
WARNER, ELIZABETH A., Assistant Professor (Medicine), 1989
B.A.; M.D., Medical College of Pennsylvania, 1981
WARNOCK, DOUGLAS J., Visiting Assistant Professor (Visual Arts), 1988
B.A.; M.A.; M.F.A., Hunter College, 1986
WARREN, GRETCHEN W., Professor (Dance), 1983
WASALA, CAROL F., Visiting Instructor (Economics), 1985
B.A., University of Rochester, 1972

WATERMAN, PATRICIA P., Associate Professor (Anthropology), 1969
B.S.; M.A., Ph.D., University of California, Berkeley, 1978
WATHEN, KRIS G., Visiting Assistant In (Physics), 1990
WATKINS, ARMIN J., Professor (Music Arts), 1960
B.M., M.M.; D.M., Indiana University, 1957
WATKINS, MICHELE A., Visiting Assistant Professor (Law & Mental Health), 1987
B.S., University of Florida, 1971
WAUGH, JOANNE B., Associate Professor (Philosophy), 1980
B.A.; M.A., Ph.D., University of Southern California, 1980
WEATHERFORD, ROY C., Professor (Philosophy), 1972
B.A.; M.A., Ph.D., Harvard University, 1972
WEAVER, LEE A., Professor (Industrial and Management Systems Engineering), 1967
B.A.; M.S., Ph.D., University of Florida, 1972
WEBB, WILLIAM H., Research Associate (Economic and Research Center), 1987
B.A., University of South Florida, 1983
WEBER, LEE A., Associate Professor (Biology), 1977
B.A.; M.S., Ph.D., University of Connecticut, 1975
WECKER, LYNN, Professor (Pharmacology & Therapeutics), 1990
B.S.; Ph.D., University of Florida, 1972
WEI, SHENG Associate In (Medical Microbiology), 1990
M.S., Tianjin Medical College, 1987
WEIBLEY, RICHARD E., Associate Professor (Pediatrics), 1982
B.S.; M.D., University of South Florida, 1977
WEIGEL, DENNIS E. Academic Administrator (Ophthalmology), 1985
WEIN, JOANN Assistant Professor (Visual Arts), 1990
B.A.; M.A., Queens College, City University of New York, 1981
WEINBERG, HERMAN, Associate Professor (Professional Physical, Education, Education), 1970
B.S.; M.A.; Ed.D., Temple University, 1969
WEINBERG, RICHARD B., Assistant Professor (Training and Consultation Services, FMHI), 1981
B.A.; M.A.; Ph.D., University of South Florida, 1983
WEINER, IRVING B., Professor (Medicine), 1989
B.A.; Ph.D., University of Michigan, 1959
WEINSTEIN, DAVID, Visiting Professor (Religious Studies), 1988
B.H.L., M.H.L.; Ed.M., Ed.D.; D.H.L., Spertus College, 1976
WEINZIERL, JON E., Associate Professor (Chemistry), 1973
B.S.; Ph.D., California Institute of Technology, 1968
WEISBERG, ROBERT H., Professor (Marine Science Program), 1986
B.S.; M.S., Ph.D., University of Rhode Island, 1975
WEISS, AVERY H., Associate Professor (Ophthalmology), 1981
B.S.; M.D., University of Miami, Florida, 1974
WELKER, ROBERT F., Associate Professor (Accounting), 1966
A.B.; J.D.; M.B.A., University of South Florida, 1974
WELLS, DANIEL A., Professor (English), St. Petersburg Campus, 1970
B.A.; M.A., Ph.D., Duke University, 1972
WELLS, KAREN E., Assistant Professor (Medicine), 1989
B.S.; M.D., Ohio State University, 1978
WELSH, BECKY M., Assistant In (Pharmacology), 1990
B.S.; M.S., Louisiana State University, 1990
WELTER, CLYDE W., Associate Professor (Adult Vocational Education), 1979
B.S.; Ph.D., Ohio State University, 1970
WENZINGER, GEORGE R., Associate Professor (Chemistry), 1963
A.B.; Ph.D., University of Rochester, 1960
WERNER, GARY L., Assistant Professor (Communications), 1989
B.A.; M.A., University of Wisconsin, 1967
WEST, HELEN C., Associate In (Aging and Mental Health, FMHI), 1986
A.B.; Ph.D., University of Pittsburgh, 1972
WEST, ROBERT J., Professor (Accounting), 1964
B.S., M.S., Florida State University, 196l, C.P.A.
WHEELEN, THOMAS L., Professor (Management), 1983
B.S.B.A.; M.B.A.; D.B.A., George Washington University, 1969
WHEELER, JAN, Instructional Specialist (Provost), New College of USF, 1984
B.A., Atkinson College, 1973
WHEELER, RAYMOND H., Chairperson-Professor (Sociology), 1965
B.S.; M.A.; Ph.D., University of Michigan, 1962
WHIDDEN, CHRISTINA, Director (Public Health), 1986
B.A., West Virginia University, 1979
WHITAKER, ROBERT D., Professor (Chemistry), 1962
B.S.; Ph.D., University of Florida, 1959,
WHITE, JAMES A., Assistant Professor (Content Specialization, Education), 1983
B.A., M.Ed., University of South Florida, 1984
WHITE, MICHAEL J., Associate Professor (Information Systems-Decision Sciences), 1968
B.E.E.; M.B.A.; Ph.D., University of Florida, 1972
WHITE, NANCY M., Associate Professor (Anthropology), 1983
B.A., M.A., Ph.D., Case Western Reserve University, 1982
WHITE, ROBERT L., Assistant Professor (Social Work), 1978
A.B.; M.S.W., University of North Carolina, 1963
WHITEFORD, LINDA M., Associate Professor (Anthropology), 1981
B.A.; M.A., Ph.D., University of Wisconsin, Milwaukee, 1979,
WHITTAKER, D. R., Associate In (D.A.R.P.A.,Engineering), 1989
A.A.; B.S., Tri-State University, 1969
WHITTAKER, GERALD F., Associate Professor (Accounting), St. Petersburg Campus, 1978
B.A.; M.A.; M.B.A.; Ph.D., Northwestern University, 1974
WICKSTROM, ERIC, Associate Professor (Chemistry), 1982
B.S.; Ph.D., University of California, Berkeley, 1972
WIDEN, RAYMOND H., Visiting Instructor (Medical Microbiology), 1981
B.A., Ph.D., University of South Florida, 1981
WIEAND, KENNETH F., Professor (Finance), 1980
B.S.; M.A., Ph.D., Washington University in St. Louis, 1970
WIENKER, CURTIS W., Associate Dean - Associate Professor (Anthropology) 1972
B.A.; M.A., Ph.D., University of Arizona, 1975
WILBER, RICHARD, Instructor (Arts and Sciences), 1988
B.F.A., M.A., S.I.U., 1976
WILES, JON W. Professor (Educational Leadership Education), St. Petersburg Campus, 1981
B.A.E.; M.Ed., Ed.D., University of Florida, 1972
WILEY, PARIS H., Associate Professor (Electrical Engineering), 1982
B.E.S.; M.S.E.E., Ph.D.E.E., Virginia Polytechnic Institute and State University, 1973
WILK, ROGER E., Professor (Educational Measurement and Research), 1972
B.S.; M.A., Ph.D., University of Minnesota, 1957
WILK, RUTA J., Associate Professor (Social Work), 1981
B.A., M.S.W.; D.S.W., University of California, Berkeley, 1981
WILKERSON, JUDY R. Academic Administrator (Education), 1985
B.A., M.A.; Ph.D., University of South Florida, 1987
WILKINSON, STUART, Associate Professor (Mechanical Engineering), 1984
B.Sc.; M.Sc., Ph.D., University of Southhampton, 1984
WILL, RICHARD P., Assistant Professor (Information Systems and Decision Sciences), 1988
B.S., M.B.A., Ph.D., University of Houston, 1988
WILLIAMS, CAROL A., Professor (Mathematics), 1968
B.A.; Ph.D., Yale University, 1967
WILLIAMS, CHARLES C., Associate Professor (Internal Medicine), 1980
BS.; M.D., University of Pittsburgh, 1973
WILLIAMS, DAVID K., Associate Professor-Acting Chairperson (Theatre Arts), 1975
B.A.; M.F.A., Florida State University, 1981
WILLIAMS, ELLOUISE E., Assistant Director, Education/Training Programs (FMHI), 1986
B.S., M.S.W., M.B.A., George Williams College, 1983
WILLIAMS, J. KELL, Associate Professor (Obstetrics and Gynecology), 1982
B.S.; M.D., Wayne State University School of Medicine, 1972
WILLIAMS, JAMES R., Professor (Anthropology), 1969
B.S.; M.A., Ph.D., Missouri University, 1971
WILLIAMS, JOSEPH F., Associate Professor (Pharmacology - Therapeutics), 1972
B.A.; Ph.D., University of Utah, 1970
WILLIAMS, KENNETH D., Academic Administrator (Engineering), 1986
B.M.; M.M., University of South Florida, 1985
WILLIAMS, MARVIN T., Associate Professor (Biochemistry), 1978
B.S.; M.Ed.; M.S.; Ph.D., Cornell University, 1976
WILLIAMS, PAUL R., Visiting Associate Professor (Public Sector Medicine), 1979
B.S.; M.D., Washington University School of Medicine, 1969

WILLIAMS, WALTER E., Assistant Professor (Mathematics), 1961
B.A., M.A.; Ed.D., Nova University, 1979
WILSON, KEVIN T., Visiting Associate In (Engineering), 1988
B.S.E.E., M.S.E.E., University of South Florida, 1984
WILSON, MARILYN K., Visiting Instructor (Psychiatry), 1970
B.A., M.S., Wayne State University, 1968
WILSON, RAYMOND R., Assistant Professor (Marine Science Program), St. Petersburg Campus, 1987
B.S., Ph.D., University of California at San Diego, 1984
WILSON, ROBERT M., Chairperson-Associate Professor (Economics), 1978
B.A.; M.A., Ph.D., Northwestern University, 1977
WILSON, THOMAS C., Program Director-Associate Professor (Library, Media and Information Studies Education), (Educational Resources), 1968
B.S., M.A., Ed.D., Wayne State University, 1970,
WILSON, WAYNE E., Counselor/Advisor (Undergraduate Studies), 1989
B.S.; M.Div., Payne Theological Seminary, 1975
WIMMER, LYNNE A., Assistant Professor (Dance), 1983
B.F.A., Juilliard School, 1968
WIMMERT, ROBERT J., Professor (Industrial and Management Systems, Engineering), 1964
B.S.M.E., M.S.I.E., Ph.D., Purdue University, 1957, P.E.
WIRANOWSKA-STEWART, MARZENNA, Assistant Professor (Neurology), 1986,
B.S.; M.S.; Ph.D., Polish Academy of Sciences, 1980
WIREDU, KWASI, Professor (Philosophy), 1987
B.A.; B.Phil., University of Oxford, 1960
WITANACHCHI, SARATH, Assistant Professor (Physics), 1990
M.S., M.S., Ph.D., State University of New York at Buffalo, 1990
WITKIND, MARK J., Instructor (Communication Sciences & Disorders), 1990
B.A.; M.S., M.Ed., Columbia University, 1986
WOLFE, ALVIN W., Professor (Anthropology), 1974
A.B.; Ph.D., Northwestern University, 1957
WOLFSON, JAY, Chairperson-Associate Professor (Public Health), 1984
B.A.; M.A.; M.P.H.; D.P.H., University of Texas, School of Public Health, 1981
WOODARD, LAURIE J., Assistant Professor (Family Medicine), 1986
A.B.; M.D., University of Vermont, 1979
WOODBRIDGE, DAVID D., Assistant Professor (Public Health), 1989
B.S.; M.S., Ph.D., Oregon State University, 1956
WOODBURY, ARTHUR N., Professor (Music Arts), 1972
B.S., M.M., University of Idaho, 1955
WOODRUFF, WILLIAM S., Assistant Professor (Music), 1985
M.M.E.; M.M., Northwestern University, 1963
*WOOLFENDEN, GLEN E., Professor (Biology), 1960
B.S.; M.A.; Ph.D., University of Florida, 1960
WORRELL, JAY H., Professor (Chemistry), 1967
B.S.; M.S.; Ph.D., Ohio State University, 1966
WRIGHT, D. R. EDWARD, Associate Professor (Visual Arts), 1980
B.A.; M.F.A., Ph.D., Princeton University, 1976
WRIGHT, TENNYSON J. Associate Professor (Rehabilitation Counseling), 1985
B.S.; M.Ed., Ph.D., University of Georgia, 1976
WUJCIK, THEODORE F., Associate Professor (Visual Arts), 1970
Certificate, Art School, Society of Arts and Crafts, Detroit, 1962
WUNDERLIN, RICHARD P., Associate Professor (Biology), Director (Herbarium) 1973
B.S.; M.S.; Ph.D., St. Louis University, 1973
WYLY, R. DONALD, JR., Associate Professor (English), 1965
B.A., M.A.; Ph.D., Ohio State University, 1964
YAMAMOTO, YOSHIMASA, Assistant Professor (Medicine), 1988
B.S.; Ph.D., University of Tokyo, 1980
YANGCO, BIENVENIDO G., Associate Professor (Internal Medicine) 1979
B.S.; M.M.A., M.P.H.; M.D., Far Eastern University, 1970
YEGIDIS, BONNIE L., Chairperson-Associate Professor (Social Work), 1977
B.A.; M.S.W.; Ph.D., University of South Florida, 1983
YEKO, TIMOTHY R., Assistant Professor (Medicine), 1989
B.S., M.D., University of Wisconson, 1982
YELTON, SUSAN W., Visiting Assistant Professor-Program Director, (Epidemilogy and Policy Analysis, FMHI), 1987
B.A.; M.S.W., Florida State University, 1972
YING, SHUH-JING, Professor (Mechanical Engineering), 1978
B.S.; M.S.; Ph.D., Harvard University, 1965, P.E.
YODER, JOSEPH W., Associate In (D.A.R.P.A., Engineering), 1990
B.S.; M.S., University of Michigan, 1982
YOU, YUNCHENG, Assistant Professor (Mathematics), 1990
B.S., M.S.; Ph.D., University of Minnesota, 1988
YOUNG, FRANK L., Academic Administrator (Lakeland Center), 1987
B.S.; M.S.; Ph.D., University of Texas, Austin, 1965
YOUNG, JANE E., Visiting Research Associate (Medical Microbiology), 1990
B.A.; M.P.H., University of South Florida, 1989
YOUNG, JANE F., Associate Professor (Professional Physical Education, Education), 1970
B.Sc.Ed., M.A.; Ph.D., Florida State University, 1986
YOUNG, MICHELE L., Program Director (Engineering), 1982
B.A., M.B.A., University of South Florida, 1988
YU, BING ZHI, Associate In (Internal Medicine), 1990
B.S.; M.D., Kobe University, 1981
ZACHARIAH, BABU, Assistant Professor (Radiology), 1988
M.B.B.S., Kottayam Medical College, India, 1976
ZAK, JOHN P. Visiting Assistant Professor (Public Sector Medicine and Cancer Education), 1985
B.S.; M.D., Universidad Nordestana, San Francisco De Macoris, 1981
ZAPOROZHETZ, LAURENE E., Research Associate (University Libaries), 1988
B.A.; M.S.L.; Ph.D., University of Oregon, 1987
ZAYED, ABLA, Assistant Professor (Engineering), 1986
B.S., M.S.; Ph.D., North Carolina State University, 1986
ZBAR, FLORA J., Assistant Professor (English), 1965
B.A.; M.A., Florida State University, 1962
ZEKTZER, ANDREW S., Research Assistant Professor (Natural Sciences), 1989
B.S., Ph.D., University of South Florida, 1987
ZERLA, FREDRIC J., Associate Professor (Mathematics), 1963
B.A.; M.S., Ph.D., Florida State University, 1967
ZERRIEN, DAVID W., Instructor (Psychiatry), 1990
B.S.; M.D., Medical College of Wisconsin, 1986
ZHENG, ZHI MING, Assistant In (Medical Microbiology), 1990
B.S., M.S., Hubei Medical University, 1981
ZHU, WEIGANG, Visiting Research Associate (Medical Microbiology), 1990
B.M.; M.S., Hunan Medical University, 1989
ZOBLE, ROBERT G., Assistant Professor (Internal Medicine), 1983
B.S., M.D., Ph.D., University of Miami, Florida, 1978
ZORITY, JOZSEF, Research Associate (Medicine), 1989
M.D., Pecs, Hungary, 1977
ZORN, NANCY E., Assistant Professor (Pharmacology and Therapeutics) 1988
B.S., M.S., Ph.D., University of Tennessee, 1988
ZUSMAN, JACK, Professor (FMHI), 1982
A.B.; M.A.; M.D.; M.P.H., Columbia University School of Public, Health and Administrative Medicine, 1966
ZWOLINSKA, JOANNA B., Assistant In (Internal Medicine), 1982
M.A., University of Warsaw, 1978
ZYLSTRA, SAPE A., Professor (Humanities), 1969
B.A.; B.D.; Ph.D., Emory University, 1969

ABBEY, WALTER R., Lecturer (Engineering), 1966-1980
ABRAMS, JACQUES, Professor *Emeritus* (Music), 1963-1985
ADAMS, PATRICIA W., Counselor and Adviser (Academic Services, Undergraduate Studies), 1965-1983
*AGENS, FREDERIC F. (Deceased), Lecturer (Physical Science), 1960-1971
AGENS, JEANETTE F., Assistant Professor (Education), 1963-1972
ALEXANDER, LUELLA K., Lecturer (Sociology), 1972-1987
ALLEN, EDMUND E., Associate Professor (Interdisciplinary Social Science), 1964-1981
*ALLEN, JOHN S. (Deceased), President *Emeritus*, 1957-1970
ANDERSON, CELIA L., Assistant Professor (Education), 1967-1976
ANDERSON, EVERETT S., (Deceased), Professor (Music), 1963-1982
ANDERSON, LOUIS V., Associate Professor (Psychological and Social Foundations Education), 1963-1980
APPLEGATE, MINERVA I., Professor (Nursing), 1976-1989
*ASHFORD, THEODORE (Deceased), Professor *Emeritus* (Chemistry), Dean *Emeritus* (Natural Sciences), 1960-1981
AULETA, MICHAEL S., Professor (Education), 1967-1973
AUSTIN, MARTHA L., Professor *Emerita* (Reading Education), 1963-1980
BAILEY, OSCAR W., Professor (Visual Arts), 1969-1985
*BATTLE, JEAN A., Professor (Psychological and Social Foundations Education), 1959-1984
BEASLEY, W. WAYNE, Professor (Educational Leadership Education), 1969-1985
*BEAUCHAMP, GEORGE E., Associate Professor (English), 1960-1971
BELL, JOHN O., Lecturer (Interdisciplinary Social Science), 1969-1982
BEVILACQUA, JEANETTE, Associate Professor (Nursing), 1977-1989
BILLINGSLEY, EDWARD B., Associate Professor (History), 1967-1977
BLOMQUIST, ALLEN J., Associate Professor (Psychology), 1972-1985 St. Petersburg Campus
BORDEN, ARTHUR R., Professor *Emeritus* (English Literature), New College of USF, 1975-1982 Sarasota Campus
BOTT,WILLIAM K., Professor (Counselor Education), 1960-1990
BOULWARE, JOE W., Lecturer (Geology), 1961-1973
BOYD, HERBERT F., Professor (Education), Sarasota Campus, 1965-1988
BRADY, HENRY G., Associate Professor (Adult and Vocational Education), 1969-1984
BREITER, BERNARD, Assistant Director-Program Director (Family Medicine), 1977-1985
BRIGGS, JOHN C., Professor (Marine Science), 1964-1985
BRIGHTWELL, Ruth G., Counselor/Advisor (Education), 1969-1988
BRITTON, JACK R., Professor *Emeritus* (Mathematics), 1967-1976
BRYANT, HAYDEN C., Jr., Associate Professor (Art & Music Education), 1967-1985
CALDWELL, EDWARD, Associate Professor (Measurement and Research Education), 1965-1985
CARR, ROBERT S., Visiting Lecturer (Mass Communications), 1968-1974
CATLIN, ROBERT A., Associate Professor (Political Science), 1977-1983
*CECONI, ISABELLE F., Lecturer *Emerita* (English), 1960-1984
CHAMBERS, JAMES A., Professor (Childhood and Language Arts Education), 1964-1985
CHEN, CHUNG HNAN, Professor *Emeritus* (Philosophy), 1965-1975
*CLARK, CLARENCE C. (Deceased), Professor *Emeritus* (Physical Science), 1960-1969
CLEARY, FLORENCE D. (Deceased), Lecturer (Education), 1964-1969
CLEARY, LYNN P., Associate Professor (Educational Leadership Education), 1970-1989
*CLEAVER, FRANK L. (Deceased), Professor (Mathematics), 1960-1985
CLINE, RALPH, Associate Professor (Exceptional Child Education), 1971-1984 St. Petersburg Campus
CLOSE, JAMES A., Professor *Emeritus* (Finance), 1971-1975
CLOUGH, W. LYNNDON, Professor *Emeritus* (Humanities), New College of USF, 1975-1980
*COOPER, RUSSELL M. (Deceased), Dean *Emeritus* (Liberal Arts), Professor (Interdisciplinary Social Science), 1959-1975
COVINGTON, HARRISON W., Dean *Emeritus* - Professor *Emeritus* (Fine Arts), 1961-1982
*COWELL, GEORGE J., Professor *Emeritus* (Engineering), 1960-1973
CRAIG, CALVERT J., Associate Professor (Educational Leadership Education), 1967-1981
CRICKENBERGER, MARGARET E., Professor *Emerita* (Physical Education, Education), 1961-1979
DANENBURG, WILLIAM P., Professor (Adult and Vocation Education), 1964-1985
DAUGHERTY, GEORGE G., Lecturer (Mass Communications), 1972-1980
DAVEY, KENNETH W., Assistant Professor (Economics), 1966-1984
*DAVIS, WESLEY F., Professor *Emeritus* (English), 1960-1983
DEAN, HARRIS W., Vice President *Emeritus* (Academic Affairs), 1961-1971
*DEYO, WILLIAM A., JR., Associate Professor (Accounting), 1960-1973
DICKEY, ANNAMARY, Associate Professor *Emerita* (Music Arts), 1969-1983
DONALDSON, MERLE R., Professor (Electrical Engineering), 1964-1985
DONIS, JACK P., Lecturer (Accounting), 1982-1989
DOTY, LOUIS F., Professor (Industrial and Management Systems Engineering), 1970-1983
DOWD, A. GERALDINE, Professor (Nursing), 1978-1989
DOWNEY, Paul M., Professor *Emeritus* (Industrial Systems Engineering), 1966-1977
DUBOIS, LEADORE D., Associate Professor (Childhood and Language Arts Education), 1964-1980
*DUDLEY, FRANK M., Associate Professor (Chemistry), 1960-1981
DUNN, EDGAR H., Lecturer (Accounting), 1970-1981 St. Petersburg Campus
DURSO, MARY W., Professor (Adult and Vocational Education), 1969-1987
DWYER,ROBERT C., Professor (Exceptional Child Education), 1964-1990
DWYER, ROY E., Lecturer (Childhood and Language Arts (Education), 1967-1978
EBERLY, DAVID A., Associate Instructor (FMHI), 1972-1987
ERVIN, DONALD W. (Deceased), Instructor - Assistant Director (Sponsored Research), 1973-1983
FERNELIUS, W. CONARD, Distinguished Professor *Emeritus* (Chemistry), 1970-1975
FORMAN, GUY, Professor *Emeritus* (Physics), 1962-1972
FOUTZ, LUCILLE C. (Deceased), Lecturer (Counseling Center), 1963-1973
*FRENCH, SIDNEY J. (Deceased), Dean *Emeritus* Academic Affairs and Professor (Education), 1958-1969
*FUSON, ROBERT H., Professor *Emeritus* (Geography), 1960-1986
FUTHEY, DALE E., Lecturer (Marketing), 1969-1984
GARRELS, ROBERT M.,Professor *Emeritus* (Marine Science), 1979-1988 St. Petersburg Campus
GATES, JEAN K., Professor *Emeritus* (Library, Media and Information Studies, Education), 1966-1988
GESSMAN, ALBERT M. (Deceased), Professor (Religious Studies), 1961-1985
GHIOTTO, JAMES L., Assistant Professor (Mass Communications), 1981-1985
GILMORE, ALDEN S., Associate Professor (Gerontology), 1961-1985
GLENISSON, EMILE G. (Deceased), Associate Professor *Emeritus* (Foreign Languages), 1967-1977
GOLDING, LOIS A., Professor (Music Arts), 1962-1984
GONZALEZ, JUAN O. (Deceased), Professor (Mechanical Engineering), 1965-1983
GOWEN, HOWARD B., Associate Professor (Humanities), 1963-1984
GRISCTI, WALTER E., Professor *Emeritus* (Mass Communications), 1967-1983

GROSS, PINCUS, Associate Professor (Rehabilitation Counseling), 1971-1987
HALL, SALLIE, Associate Professor (English), 1963-1987
*HARKNESS, DONALD R., Professor (American Studies), 1960-1989
*HARTLEY, JACQUETTA W., Instructor (English), 1960-1972
HARTMAN, ROBERT C., Professor (Internal Medicine), 1974-1989
HAVEN, JULIA M. (Deceased), Professor *Emeritus* (Education), 1969-1974
HEARN, THOMAS K., (Deceased), Assistant Professor (Education), 1967-1977
*HERTZ, GILMAN W., Professor (Elective Physical Education), 1960-1985
HICKMAN, WILLIAM, Assistant Professor (English), 1963-1969
HINDLE, WILL M. (Deceased), Professor (Visual Arts), 1972-1985
*HIRSHBERG, EDGAR W., Professor *Emeritus* (English), 1960-1985
HORRIGAN, FREDERICK J. (Deceased), Associate Professor (Political Science), 1968-1985
HOUK, C. WESLEY, Associate Professor (Visual Arts), 1961-1989
HUMM, HAROLD J., Professor *Emeritus* (Marine Science), 1966-1982
HUNNICUTT, CLARENCE W. (Deceased), Professor (Education), 1967-1977
IORIO, JOHN J., Professor (English), 1963-1988
JAESCHKE, DONALD J., Associate Professor (Adult and Vocational Education), 1963-1979
JAMES, ROSELLA, Assistant Professor (Economics), 1967-1979
JENNINGS, VANCE S. Professor-Coordinator (Music), 1967-1990
JOHNSON, GORDON A., Professor (Music Arts), 1963-1981
JOHNSON, G. ORVILLE, Professor *Emeritus* (Exceptional Child Education), 1972-1984
JOHNSON, ROGER E., Professor (Content Specializations, Education), 1967-1990
JURGENSEN, LOUIS C., Professor (Accounting), 1966-1981
KAPLAN, MAX, Professor (Sociology), 1967-1978
KASAN, E. LEE, Lecturer (Communication Sciences and Disorders), 1967-1990
KASHDIN, GLADYS S., Professor *Emerita* (Humanities), 1965-1987
KAUDER, EMIL (Deceased), Distinguished Lecturer *Emeritus* (Economics), 1968-1973
KELLER, WALTER D., Professor (Geology), 1970-1973
KELLEY, JOHN E., Associate Professor (Mathematics), 1964-1988 St. Petersburg Campus
*KENDALL, HARRY W., Professor (Physics), 1960-1984
KENERSON, DAVID R., Associate Professor (Management), 1966-1987 St. Petersburg Campus
KERNS, ALLEN F., Visiting Assistant Professor (Adult and Vocational Education), 1974-1987
*KIEFER, H. CHRISTIAN, Professor (English), 1960-1985
KINCAID, GEORGE H., Associate Professor (Psychological and Social Foundations, Education), 1967-1988
KINDE, STEWART W., Professor-Chairperson (Communication Sciences and Disorders), 1965-1987
KING, IMOGENE M. Professor *Emerita* (Nursing), 1980-1990
KRUSCHWITZ, WALTER H., Associate Professor (Physics), 1967-1990
*LAKELA, OLGA (Deceased), Research Associate (Botany), 1960-1970
LINTON, JOE R., Associate Professor *Emeritus* (Biology), 1963-1982
LONG, JO ANN, Professor (Childhood Education), 1969-1989
*LUCKENBACH, LEON R. (Deceased), Associate Professor (Mathematics), 1960-1974
*MC CLUNG, GENE, Professor (Accounting), 1960-1983 St. Petersburg Campus
MC CLUNG, NORVEL, Professor *Emeritus* (Biology), 1966-1985
*MC LEAN, EDWARD F. Professor (Languages), 1960-1990
MACKAY, E. MAXINE, Professor *Emerita* (Humanities), 1961-1980
MANDLOW, MARTHA, Counselor/Advisor (Business), 1972-1989
MANKER, CHARLES C., JR. (Deceased), Professor (Psychological and Social Foundations), 1966-1984
MARIN, GERALD S., Instructor (Student Personnel Office, Education), 1969-1985
MAYBURY, P. CALVIN, Professor (Chemistry), 1961-1987
MERRIAM, HARLAND C., Professor (Childhood and Language Arts Education), 1969-1981
MERRIAM, KEMPER W., Professor *Emeritus* (Accounting), 1967-1982
*MEYER, HERBERT N., Professor *Emeritus* (Industrial/Organizational Psychology), 1973-1985
MEYERRIECKS, ANDREW J., Professor (Biology), 1961-1985
MITCHELL, RICHARD W., Associate Professor (Physics), 1962-1986
*MONLEY, LAURENCE E. (Deceased), Professor (Mathematics Education), 1960-1984
MURPHY, ROBERT J., Associate Professor (Economics), 1966-1984
NAEHRING,DOUGLAS C.E., Associate Professor (Industrial and Management Systems Engineering), 1970-1990
*NELSON, GID E., JR., Professor *Emeritus* (Biology), 1960-1981
NESMAN, EDGAR G., Professor *Emeritus* (Sociology), 1968-1989
NEUBERGER, HANS H., Professor *Emeritus* (Geography), 1971-1974
NOER, RUDOLF J., Professor *Emeritus* (Surgery), 1970-1977
OBERMEYER, CHARLES (Deceased), Lecturer (American Idea), 1964-1970
OCHSHORN, MYRON G., Associate Professor (English), 1963-1985
O'DONNELL, MAURICE E., Associate Professor (Public Administration), 1966-1984
O'HARA, ROBERT, Professor *Emeritus* (Languages), 1961-1988
*O'HARE, LEO H., Lecturer (English), 1960-1969
OLESON, NORMAN L., Professor (Physics), 1969-1985
PALM, JOHN W., Assistant Professor *Emeritus* (Interdisciplinary Social Science), 1970-1981
PALMER, ROBERT E., Sr., Associate Professor (Adult and Vocational Education), 1970-1985
PARKER, JOHN W., JR. (Deceased), Professor (English), 1963-1985
*PARRISH, JAMES A., JR. (Deceased), Professor *Emeritus* (English), 1960-1985
PATTERSON, GERALD E., Associate Professor (Adult and Vocational Education), 1971-1988
PEARCEY, WALTER E., JR., Instructor (Childhood and Language Arts Education), 1970-1985
PIERCE, CARMEL J., Counselor/Advisor (Student Personnel Advising, Education), St. Petersburg Campus, 1970-1985
POPE, JAMES S., Lecturer (Education), 1969-1976
PRATHER, SAM, Associate Professor (Elective Physical Education), 1962-1983
*PREODOR, EDWARD, Professor *Emeritus* (Music Arts), 1960-1985
PRESCOTT, GERALD R., Associate Professor (Music Education), 1967-1972
RACKOW, JEANNE, Associate Professor (Nursing), 1973-1987
RAGAN, WENDELL J., Professor (Geology), 1960-1987
*RAY, JAMES D., JR.,(Deceased), Professor *Emeritus* (Biology), Dean *Emeritus* (Natural Sciences), 1959-1983
REILLY, J. TIM., Associate Professor (Criminology), 1965-1989, St. Petersburg Campus
RICKER, LAWRENCE H., Professor (Communication Sciences and Disorders), 1966-1987
RIMBEY, DONALD H., Professor (Energy Conversion Engineering), 1967-1980
ROBERSON, BRUCE W., Lecturer (Accounting), 1966-1976 St. Petersburg Campus
ROBERTS, LOREN G., Coordinator (Student Personnel, Education), 1968-1983
ROBERTSON, HENRY M., Professor *Emeritus* (American Studies), 1961-1985
ROBERTSON, PHYLLIS M., Counselor/Advisor (Education), 1968-1985
*ROSE, DONALD C., Professor *Emeritus* (Mathematics), 1960-1983
ROSS, BERNARD E., Professor *Emeritus* (Civil Engineering and Mechanics), 1965-1990
ROSS, VIVIAN M., Professor (Nursing), 1977-1990
ROTHWELL, STUART C., Professor *Emeritus* (Geography), 1965-1979
ROUSH, S. LARRY, Associate Professor (Management), 1978-1988
SANDERSON, ARTHUR M., Professor *Emeritus* (Mass Communica-

tions), 1965-1981
*SARETT, ALMA J. (Deceased), Professor *Emerita* (Speech), 1960-1970
SEXTON, IRENE, Associate Professor (Childhood and Language Arts Education), 1969-1979
SHACKSON, L. LEE, Professor *Emeritus* (Humanities), 1964-1974
*SHANNON, ROBERT L., Professor (Childhood and Language Arts Education), 1960-1981
SHAW, NANCY, Counselor/Advisor (Student Personnel Office, Education) 1974-1988
SHERMAN, JAMES J., Professor (Management), 1967-1984
SHERMAN, ROGER T., Professor (Surgery), 1972-1982
SILVER, JAMES W. (Deceased), Professor *Emeritus* (History), 1969-1979
SLEEPER, DAVID C., Professor (Marketing), 1964-1985
SMALL, NORMAN C., Professor (Engineering), 1969-1989
SMITH, ALICE G., Professor *Emerita* (Library, Media and Information Studies, Education), 1965-1988
SMITH, B. OTHANEL, Professor *Emeritus* (Education), 1969-1975
SMITH, CHARLES T., Associate Professor (Finance), 1968-1986
SMITH, DONN L., Dean *Emeritus* (Medicine)-Professor *Emeritus* (Pharmacology and Comprehensive Medicine), 1969-1985
SMITH, NORMAN V., Lecturer (Engineering), 1968-1975
SMITZES, MELPOMENE, Associate Professor (Exceptional Child Education), 1965-1983
SODEMAN, WILLIAM A., JR., Associate Dean-Professor (Comprehensive Medicine), 1975-1987
SOKOLSKY, ANATOLE, Associate Professor (Modern Languages), 1961-1972
SOMMER, ADA M., Associate Professor (Psychiatry), 1976-1988
STALNAKER, LEO, JR., Associate Professor/Director (Student Publications, Student Affairs), 1969-1986
*STANTON, EDGAR E., JR., Professor *Emeritus* (American Studies), 1960-1977
STEINIKE, GEORGE C., Associate Professor (Economics), 1971-1983
STEVENS, NOEL, Associate Professor (Music), 1970-1988
STONE, LEO D., Lecturer (Finance), 1974-1981 St. Petersburg Campus
STORR, KARL, Instructor (Mass Communications), 1973-1989
STUBBLEBINE, ALBERT N., JR., Assistant Professor (Engineering), Coordinator (Cooperative Education Program), 1964-1968
TAYLOR, SPAFFORD C., Associate Professor (Elective Physical Education, Education), 1963-1984
THOMPSON, SHERMAN, Associate Professor (Adult and Vocational Education), 1966-1983
TIPTON, HENRY C., Assistant Professor (Biology), 1965-1980
TOOTHMAN, REX C., Associate Professor (Adult and Vocational Education), 1970-1980
TURBEVILLE, JOSEPH E., JR., Lecturer (Physics), 1964-1984
TWIGG, JOHN F. (Deceased), Associate Professor (Engineering), 1964-1981
UNRUH, ANITA, Associate Professor (Art and Music Education), 1968-1985
URBANEK, RAYMOND A. (Deceased), Professor (Measurement and Research Education), 1961-1981
*VALENTINE, VIRGINIA W., Lecturer *Emerita* (English), 1960-1984
VETTER, HAROLD J., Professor (Criminology), 1974-1988
WARD, ANNIE, Professor (Measurement and Research Education), 1972-1980
*WARNER, ROBERT A., Professor *Emeritus* (Interdisciplinary Social Science), 1960-1975
WEINGARTNER, CHARLES, Professor *Emeritus* (Psychological and Social Foundations Education), 1970-1981
WEST, WILLIAM W., Professor (Content Specializations, Education), 1970-1987
WHITNEY, VERNON W., Associate Professor (Social Science and Letters Education), 1966-1982
WILEY, RUSSELL W., Professor - Coordinator (Education), 1966-1975
WILLIAMS, JUANITA H. (Deceased), Professor *Emerita* (Interdisciplinary Social Science), 1966-1985
WILMOTH, FRANK R., Associate Professor (Physiology), 1979-1989
WIMMERT, ROBERT J., Professor (Industrial and Management Systems, Engineering), 1964-1990
*WINTHROP, HENRY (Deceased), Professor *Emeritus* (Interdisciplinary Social Science), 1960-1978
WRONG, CHARLES J., Lecturer (History), 1970-1986
YOUNG, JOANNE E., Associate Professor *Emerita* (Physical Education), 1961-1989
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